

UNITED STATES AIR FORCE IERA

Preliminary Health Risk Assessment, Vladivostok Humanitarian Assistance Ecology Project

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The United States Department of Defe	ense is actively involved in a	a joint ecology project	with key	y health officials in Far East
Russia (RFE). As an extension of a L	Department of State (DOS) b	numanitarian assistance	e program	m that began in 1005 the
Department of Defense's Pacific Com	mand (PACOM) has becom	e the lead agency in d	levelonin	o and evention accommo
team with Kussia counterparts and add	cress environmental and med	dical issues. This Pre-	diminary'	Health Diel Accessment
conducted jointly by PACOM and Rus	ssian Department of Health	(DOH) personnel in 1	999. Was	the first major project to
support the established ecology goals.	The project was designed to	to focus on quantifying	o the exn	source of children to land in
six kindergartens representative of the	kindergarten system. Sam	uples were collected fr	rom air.	water soil nainted surfaces
dust, and blood to address the potentia	al expsoure impact from a v	variety of media. The	ioint ser	rvice PACOM team divided
sample collection and analysis respons	sibilities and each member v	was paired with Russia	experts	for data collection
A total of 1255 samples were collected	d to provide adeaquate data	to identify sources of	lead as v	vell as estimate the potential
exposures to children. Samples for so	oil, breathing air, ambient ai	ir, surfaces, dust, and	water w	ere examined as sources of
environmental lead while the blood -le	cad results were used to dete	ermine acqual exposure	e to lead	The collective
data, indicates the primary source for I	lead exposure in this study is	s the paint used in the	kinderga	artens and in the homes. This
technical report summaries our sampli	ing efforts and results as we	Il as recommendation	s develor	ed to control and reduce lead
exposures to children in the Vladivost	ok area.		-	
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EXECUTIVE SUMMARY

A tri-service Department of Defense scientific/medical contingent is actively involved in a joint "ecology" project with key health officials in Far East Russia (RFE). As an extension of a Department of State (DOS) humanitarian assistance program that began in 1995, the Pacific Command (PACOM) became the lead agency in developing and executing cooperative programs with Russian counterparts to address environmental and medical issues. This Preliminary Health Risk Assessment by PACOM and Russian Department of Health (DOH) personnel in 1999, was the first major project to support the established ecology goals.

This health assessment project focused on several areas in and around Vladivostok where the DOH believed the population was at an elevated risk from environmental exposures. Of particular concern, was quantifying lead exposure to children in their kindergarten system. Collecting lead exposure data from a variety of media was recognized as a project that could be addressed by a joint team. The PACOM team provided analytical support, training, and aided in the interpretation of data generated during the project.

The project scope included mini exposure assessments at six kindergartens located in Vladivostok, Russia. Samples were collected from air, water, soil, painted surfaces, dust, and blood. The joint service PACOM team divided sample collection and analysis responsibilities into subteams and each US member was paired with their Russia counterparts. Initially, the Russian team selected six kindergartens for evaluation during the study period from 28 August to 7 September 1999. Blood testing could not be accomplished at two of the locations. Therefore, while environmental samples were collected at all six of the original locations, blood samples were collected at four of the original schools as well as two alternate schools. Sampling and screening of the children and their schools occurred during normal school hours.

A total of 1255 samples were collected to provide a comprehensive picture of potential lead sources and actual exposure to children attending the schools. Environmental samples for soil, breathing air, ambient air, surfaces, dust, and water were examined as sources of lead while the blood lead results were used to determine actual exposure to lead. Results indicate that lead is present in many painted surfaces and in the soils in and around the school grounds. Water and air sampling results indicate that these media do not contain lead in the areas sampled. Blood testing showed that 27% of kindergarten children have blood lead level above the Russian standard of 8 μ g/dl.

The primary source for lead exposure in this study is thought to originate in paint used in the kindergartens and in the homes. Recommendations to control this exposure were developed and are being implemented in Vladivostok. These recommendations include (1) developing regulations to control the production and importation of paints containing lead, (2) ensuring all lead containing painted surfaces are abated or well maintained, (3) replacing contaminated soils on playgrounds with soils from lead-free sources, and (4) instituting clinical management of children with elevated blood levels.

Potentially dangerous lead exposure from paint is a global issue that can easily and effectively be managed when adequate resources are available. By making resources available, PACOM demonstrated that local health experts can effectively minimize lead exposures and develop strategic plans to reduce their environmental levels of lead. Through synergistic joint-team ecology initiatives, members of the Air Force, Army and Navy scientific communities can share unique expertise and capabilities to conduct projects that provide real health benefits to populations that until recently seemed out-of reach.

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1.0 INTRODUCTION

This humanitarian assistance initiative is an extension of a Department of State (DOS) program that began in 1995 when DOS allocated \$4.5 M for the transport of excess medical equipment to Russia Far East (RFE). This DOS mission, entitled Operation Provide Hope, was completed in April, 1999 when a Pacific Command (PACOM) team completed maintenance and repairs to the original equipment. In 1998, PACOM designated the Pacific Air Forces (PACAF) Surgeon General (SG) as the executive agent for future medical humanitarian efforts to the RFE. PACAF/SG led site survey teams to Vladivostok in July and December 1998. The first visit resulted in the Department of Health (DOH) of Primorski Krai being identified as the central point of contact for medical humanitarian assistance for the RFE. During the second visit the DOH drafted, in conjunction with the Medical-Humanitarian Assistance Team (M-HAT), a nonbinding document called the Protocol of Intent. This document described a five-year strategic plan that contained 18 initiatives in which medical assistance was requested. One of the 18 initiatives was termed the ecology project. This project was aimed at conducting health assessments of several areas in and around Vladivostok where the DOH believed the population was at higher risk from environmental exposures. DOH indicated serious health issues were likely to exist to the extent that regional public health could be implicated. The intent of the RFE Ecology Project is to establish a long-term effort to assess the community environmental health concerns and provide information on community action plans. During a subsequent PACOM team visit in June 1999, the Protocol of Intent was amended reducing the number of initiatives from 18 to 5 with the Ecology Project being ranked the second highest priority behind medical equipment transfer.

2.0 BACKGROUND

In June 1999, a PACOM team visited RFE to scope the Ecology Project. Both the Russian and American sides established teams that would work together to achieve the objectives of the Ecology Project. The Russian team consisted of representatives from the DOH (overall point of contact), the Vladivostok State Medical University (point of contact for the ecology project), and Primorski Krai State Department of Epidemiological Surveillance (SDES). The American ecology project team consisted of representatives from the United States Air Force's Detachment 3, Air Force Institute for Environment, Safety, and Occupational Risk Analysis (Det 3, AFIERA), Kadena AB, Japan, the United States Army Center for Health Promotion and Preventive Medicine Pacific (CHPPM-PAC), Camp Zama, Japan, and the United States Navy Environment and Preventive Medicine Unit - 6 (NEPMU-6), Pearl Harbor Hawaii.

Based on the Russian's team public health priorities and the capabilities of the joint service health risk assessment team, it was evident that quantifying the exposure of children to lead in their kindergarten system was a high priority issue that could be addressed by the joint team.

The two sides agreed on the general scope of a project to characterize the exposure of kindergarten children to lead in six of the regions 100 plus kindergartens. The general framework called for samples to be collected from air, water, soil, painted surfaces, dust, and blood. Food was considered for evaluation but, after further review, it was decided that food would not be included as part of the exposure evaluation because of difficulties in analyzing food samples on-site and bringing samples out of the country for laboratory analysis.

The joint service team divided up responsibilities in each of the areas to be investigated. CHPPM-PAC was responsible for all activities associated with quantifying lead exposure for both personal breathing and ambient air. Det 3, AFIERA was responsible for all activities associated with quantifying lead exposure from soil, painted surfaces, and dust. NEPMU-6 was responsible for all activities associated with quantifying lead exposure from water and training the Russian team on the procedures screening the blood lead levels using the Lead Care instrument.

Initially, the Russian team selected six kindergartens (Numbers 109, 113, 132, 138, 141, and 162) for evaluation during the study period from 28 August to 7 September 1999. For various reasons, blood testing could not be accomplished at two of the locations (Number 113 and 138). The decision was made to go ahead and collect environmental samples at all six of the original locations and add to other schools (Numbers 18 and 169) for blood sampling only. Sampling and screening of the schools occurred during normal school hours. A typical schedule of the children's activities is shown in Table 1.

TABLE 1. Typical Daily Schedule of School Children

Time	Activity
0700-0830	Arrival
0900-0910	Exercise in playroom
0910-0930	Breakfast
0930-1030	Classroom
1030-1200	Walking/Play
1200-1215	Back to room
1215-1230	Lunch
1230-1500	Nap
1530-1700	Play outside
1700-1730	Dinner
1800-1830	Pickup

3.0 PROJECT OBJECTIVES

The objective of this short-term, multi-site project was to as accurately as possible, given the constraints on sample transport and on-site analytical capability, quantify the exposure of kindergarten children to lead by:

- Sampling and analyzing soil on-site from kindergarten properties to determine the lead content and compare results to the U.S. Department of Housing and Urban Development (HUD) and Russian guidelines for acceptable lead content in soils.
- Sampling and analyzing water on-site from the kindergartens and the source water to quantify lead content and compare results to the U.S. Environmental Protection Agency (EPA) and Russian guidelines for acceptable lead content in water. As feasible, screen water supplies at the homes of children with elevated blood lead levels.
- Conducting ambient air particulate monitoring, using portable particulate (PM-10) monitors to quantify and evaluate potential lead exposures from this media and compare results to the U.S. EPA and Russian guidelines for acceptable lead content in air.
- Conducting ambient air lead monitoring, using portable Total Suspended Particle (TSP) high volume air monitors to quantify and evaluate potential lead exposures from this media and compare results to the U.S. EPA and Russian guidelines for acceptable lead content in air.
- Conducting breathing zone sampling using portable low volume personal air monitors to examine the potential for expectant mothers to routinely breath lead contaminated air to assess lead burden prior to birth.
- Conducting dust sampling and on-site screening in the kindergartens to quantify and evaluate potential lead exposures and compare results to the U.S. HUD and Russian guidelines for acceptable lead content in dust.
- Conducting surface testing to identify lead-based paint in the kindergartens, on playgrounds, and on playground equipment to quantify and evaluate potential lead exposures from this media and compare results to the U.S. HUD and Russian guidelines for acceptable lead content in paint.
- Conducting blood testing of select kindergarten children to determine blood-lead concentrations and compare the results to the U.S. EPA and Russian action levels as a final determinate on exposures of kindergarten children to lead.
- Performing a screen of lead sources in the homes of children with elevated blood lead levels.

4.0 APPROACH AND SAMPLING METHODOLOGIES

4.1 Soil/Bulk Samples

4.1.1 Sampling/Analytical Equipment

Soil and bulk paint samples were screened for lead on-site using a Niton X-Ray Fluorescence (XRF) Instrument, Model 700, Unit number U9152509LY. In addition, nine percent of the soil samples were brought back by the U.S. team and analyzed in the Det 3 AFIERA analytical laboratory at Kadena AB, Japan.

4.1.2 Sampling Design

There were a total of six kindergartens selected by the Russian team for sampling as well as the play areas near twenty-two homes. The Russian team, based on blood-lead testing results, also selected the homes. The Russian team developed a detailed sampling grid for each kindergarten, while the samples collected at the homes were random samples from the play areas adjacent to the home. At least 300 cubic centimeters (10 cm² x 3 cm) of soil were collected from each sample site and brought to the SDES building for analysis in accordance with the Niton User's Guide. From 24 to 40 samples were collected from each of the kindergartens and one sample was collected from each of the homes. Two bulk paint chip samples were also collected and brought back for analysis to confirm the Niton XRF readings.

4.1.3 Sampling Methodology

The Russian team developed a sampling grid for soil sampling at the kindergartens and collected the samples prior too and during the visit by the U.S. team members. Russian team members also completed sample collection at the homes. Samples were collected using a spatula and consisted of at least 300 cubic centimeters of soil removed from the sample site and placed into plastic bags that were labeled [1].

4.1.4 Analytical Methods

All samples were analyzed in plastic bags provided by the Russian team or ziploc® bags provided by the U.S. team members. The concentration of lead and 13 other metals (Arsenic, Molybdenum, Zirconium, Strontium, Rubidium, Mercury, Zinc, Copper, Nickel, Cobalt, Iron, Manganese, and Chromium) were directly measured using x-ray fluorescence in accordance with EPA Method 6200 for Field Portable X-ray Fluorescence [2] and the Niton User's Guide Chapter 3 for Analyzing Bulk Samples [1]. All analysis was done under the direct supervision of licensed operators from Det 3, AFIERA. Seventeen "split" samples were hand carried to the Det 3, AFIERA, Analytical Laboratory and analyzed for total lead in accordance with EPA Method SW 846-7420 [3]. Lead was extracted from the soils using glacial acetic acid and sodium hydroxide and then analyzed by inductively coupled plasma atomic-absorption spectroscopy. Four of these samples were also analyzed for soluble lead using EPA Method SW846-1311 [4],

Toxicity Characteristic Leachate Procedure (TCLP) with Atomic Adsorption/Inductively Coupled Plasma.

4.1.5 Data Collection and Sample Handling

Samples were homogenized within the plastic bags and large pieces of organic matter (e.g., twigs and grass) were excluded. The samples were then analyzed on-site as they were made available. Samples were assigned a tracking number in the field and tracked using field logbooks. Results were reported by analyte results, sampling site identifier, sample number, and date collected. Field sheets were completed for each sample transported to the laboratory for analysis. All samples undergoing laboratory confirmation analysis were hand-carried to Det 3, AFIERA Analytical Laboratory.

4.1.6 Sampling Quality Assurance/Quality Control (QA/QC) and Data Acceptance Criteria

To ensure the accuracy of soil analysis, the following procedures as indicated by Niton User's Guide were followed:

- **4.1.6.1 Calibration Procedure**: Niton calibration was performed according to manufacturer's instruction and, at a minimum, included calibration at the start of each work day and once every two hours of operation.
- **4.1.6.2 Chain of Custody**: Chain of custody forms were initiated for all samples delivered for laboratory analysis.
- **4.1.6.3 Blanks**: Soils certified as lead-free were not available to serve as blanks for Niton XRF analysis, however "split" samples were used to confirm the accuracy of the Niton XRF.
- **4.1.6.4 Data Validation**: In addition to the calibration procedures described in section 4.1.6.1, 9% of the samples collected were "split" and underwent complete laboratory analysis following standard procedures.

4.1.7 Analytical QA/QC

Samples brought back to the laboratory for analysis were analyzed in accordance with the standard Det 3, AFIERA Analytical Division QA/QC procedures [5]. Each set of samples were run in conjunction with a commercial laboratory spike. Analytical variance from the known spike sample would have invalidated the results of the sample run.

4.1.8 Data Evaluation

To determine the potential health effects due to lead in the soil, data was evaluated by comparison to the United States Environmental Protection Agency (U.S. EPA) action levels [6] and the Russian background soil reference values [7]. The U.S. EPA has adopted the United States Department of Housing and Urban Development's (HUD) guidance on acceptable soil

contamination levels [8]. For areas that may involve contact with children, such as playgrounds and near housing or schools, the acceptable level of lead in soil is less than 400 ppm [8]. For soil contamination in the range of 400 to 2000 ppm, further evaluation and physical exposure-reduction activities are appropriate [8]. Children, parents, and care providers should be educated on methods to minimize the contact and risk of inhalation and ingestion of these soils. For soil containing greater than 2000 ppm, the EPA recommends removing or permanently covering these soils [6].

The Russian ecological level of concern is established by comparing sample results to levels normally found in similar soil types. During this survey, Russian team members identified 40 ppm as the level of concern while all samples that exceeded 100 ppm were flagged as samples of particularly high concern.

4.2 Water Samples

4.2.1 Sampling/Analytical Equipment

Water samples were analyzed on-site using a Hach Drel 2000 Portable Water Analysis kit.

4.2.2 Sampling Design

Sampling efforts were designed to identify the lead concentrations in both the kindergartens and the reservoir water that supplies the kindergartens. Four to 11 samples, for a total of 43 samples were collected from the 6 kindergartens while 12 samples were collected from the Artem, Bogatinskoe, and Sedanka reservoirs. In addition, 42 samples were collected from the homes of children identified as having elevated blood-lead levels. The required minimum sample volume was 100 milliliters which was to be collected as a "first draw" sample. All samples were collected by Russian team members using their own protocol and brought to the SDES building for analysis. Sample results were used to indicate if drinking water is a primary route of concern for lead exposure to the children.

4.2.3 Sampling Methodology

The Russian team selected the kindergartens and reservoir sampling locations and collected all samples during the visit by U.S. team members. The sampling protocol called for 1 liter "first-draw" samples into bottles that had been acid rinsed, however samples were collected in a variety of bottles, some of which had not been prerinsed.

4.2.4 Analytical Methods

All samples were analyzed using the Hach LeadTrak Fast Column Extraction Method 8317 [9]. Samples were prepared using reagent packets and extraction procedures. The lead concentrations were directly measured using the Hach's internal colorimeter. The U.S. team members initially analyzed samples while the Russian team members gained proficiency with the Hach. Once proficient, the Russia team members completed most of the remaining analyses.

4.2.5 Data Collection and Sample Handling

Samples were analyzed on-site as they were made available. Samples were assigned a tracking number in the field and tracked using field logbooks. Results were reported by analyte result, sampling site identifier, sample number, and date collected.

4.2.6 Sampling Quality Assurance/Quality Control (QA/QC) and Data Acceptance Criteria

To ensure the quality of water analysis, the following procedures as indicated by Hach Method 8317 were followed [9]:

- **4.2.6.1 Calibration procedure**: The Hach Drel 2000 is self-calibrating once the LeadTrak program is selected. Each day operators verified that the LeadTrak program calibrated its lamp to emit a wavelength at 477nm. Standards, provided as part of the kit, were analyzed every 10th sample to ensure the unit was still calibrated.
- **4.2.6.2 Chain of Custody**: Chain of custody forms were not used for these samples. Sample collectors delivered samples directly to the team after collection.
- **4.2.6.3 Blanks**: Daily analysis of lead-free water was conducted to verify the accuracy of the Hach kit.

4.2.7 Data Evaluation

To determine the potential health effects due to lead in the water, sampling data was compared to the World Health Organization action level of 10 μ g/L [10].

4.3 Air Samples

4.3.1 General Area

4.3.1.1 Sampling/Analytical Equipment: Total Suspended Particulate samples were collected using Portable Total Suspended Solids High Volume Air Samplers fitted with glass fiber filters. TSP samples were brought back by the U.S. team and analyzed in the CHPPM-PAC analytical laboratory at Camp Zama, Japan and the USACHPPM analytical laboratory at Aberdeen Proving Grounds, Maryland.

Particulate matter samples were collected using Airmetrics Minivol PM-10 (particles less than 10 microns) Portable Air Sampler with 47-mm quartz filters. PM-10 samples were brought back by the U.S. team and analyzed in the CHPPM-PAC analytical laboratory at Camp Zama, Japan and the USACHPPM analytical laboratory at Aberdeen Proving Grounds, Maryland.

4.3.1.2 Sampling Design: There were a total of six sampling sites selected by the Russian team. Sites were to be selected based on the following factors: vicinity of the childcare centers, known stationary sources in the area such as lead smelters, traffic conditions, local wind patterns

and terrain, and equipment security considerations. PM-10 air samplers were used as saturation monitors, non-reference method, to characterize spatial distribution of lead in PM-10 samples at a given site. A total of 15 PM-10 samples were collected from five kindergartens. TSP air samplers were used in accordance with the reference method for lead as provided in 40 CFR 50, Appendix B, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere [11]. A total of 21 TSP samples were collected from 5 kindergartens. Personal air samplers were used as breathing zone monitors, non-reference method, to determine the airborne lead intake of expectant mothers selected by the Russian team.

4.3.1.3 Sampling Methodology: High volume portable TSP samplers were operated in accordance with the reference method for lead as provided in 40 CFR 50, Appendix B, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere [11]. The sampler operated by drawing ambient air into a covered housing and through a glass fiber filter. The sampling period was 24 hours (plus or minus 1 hour). From two to six samples were collected at each of five facilities over the 8-day sampling event. In addition to lead, the samples were also tested for beryllium, cadmium, chromium, and manganese.

PM-10 portable air samplers are basically a pump with a programmable timer. In the particulate matter sampling mode, air was drawn by the pump through a size separator and then through a filter medium. The 10-mm particle separation was achieved by impacting particles 10 millimeters and smaller on a standard 47-mm quartz filter, which was then weighed to determine the concentration of respirable particles in air. The sampling period was 24 hours (plus or minus 1 hour). From two to four samples were collected at each of five facilities over the 8-day sampling event.

- **4.3.1.4 Analytical Methods**: The samples collected on glass (TSP) or cellulose ester filters (Personal) were extracted from the filter paper by hot nitric acid and then analyzed by inductively coupled plasma atomic-emission spectroscopy in accordance with 40 CFR 50, Appendix G [12]. The USACHPPM Division of Laboratory Analysis analyzed the samples. The extraction and analysis were done according to 40 CFR 50, Appendix G [12]. The samples collected on the PM-10 quartz filters were weighed on a calibrated scale at the USACHPPM Division of Laboratory Analysis and the filter weight was compared to the pre-survey weight of the same filter. The difference in mass was the mass of the airborne particulate matter smaller than 10 mm that was collected in each sample volume.
- 4.3.1.5 Data Collection and Sample Handling: Filters were replaced daily and placed in individual filter holders. All filters were hand carried to CHPPM-PAC and mailed to the USACHPPM Division of Laboratory Analysis using FedEX. Filters were tracked in the field and in the laboratory by the filter number imprinted on each filter by the manufacturer. Results were reported by analyte result, sampling site identifier, sample number, and date collected. Field sheets were completed with the collection of each sample.

- 4.3.1.6 Sampling Quality Assurance/Quality Control (QA/QC) and Data Acceptance Criteria:
- **4.3.1.6.1 MiniVol PM-10 Samplers**: To ensure the quality of PM-10 samples, the following procedures as indicated in the EPA Quality Assurance Handbook, Volume II, Section 2.11 [13] were followed:
- **4.3.1.6.1(a) Calibration Procedure**: Calibration was performed according to the manufacturer's instruction.
- **4.3.1.6.1(b) Chain of Custody**: Chain of custody forms were initiated with the collection of the sampling media and maintained through analysis.
- **4.3.1.6.1(c)** Blanks: Fifteen- percent blanks (3 filters) were pre and post weighed with survey samples.
- **4.3.1.6.1(d) Data Validation**: For a sample to be considered valid the flow rates must be plus or minus ten percent of five liters per minute and the samplers should operate for 24-hours, plus or minus one-hour. In addition, filters should be examined for tears, unusual wear, or change in color of particles. Torn or broken filters were not necessarily discarded if all pieces of the filter were present. If pieces of the filter were missing, then the filter was marked as an invalid sample. Any deviation was noted so that the sample could be qualified or invalidated.
- **4.3.1.6.1(e)** Filter weighing procedures: Filters were weighed before and after sampling. The general procedure to obtain a PM-10 filter weight is to condition (dry) the filter for at least 24 hours, and then weigh the filter and record weight. The filter is then conditioned for six hours and re weighed. This procedure is repeated until consecutive filter weights are within 0.0005 grams of each other.
- **4.3.1.6.2 TSP Samplers**: To ensure the quality of the metal samples, procedures described in the EPA Quality Assurance Handbook, Volume II, Section 2.8, Reference Method for the determination of Lead in Suspended Particulate Matter Collected from Ambient Air [14] were followed.
- **4.3.1.6.2(a)** Calibration Procedure: A multipoint calibration was performed before the first sampling event and a single point flow rate check was performed before the second sampling event. If the flow rate deviated by more than seven percent during the single point flow rate check, then the sampler was recalibrated.
- **4.3.1.6.2(b) Chain of Custody**: Chain of custody forms were initiated with the collection of the sampling media and maintained through analysis.
- **4.3.1.6.2(c)** Blanks: Nineteen- percent blanks (4 filters) were analyzed to support this sampling event.

- **4.3.1.6.2(d) Data Validation**: For the sample to be considered valid the flow rates must be within 1.1 m³ per minute to 1.7 m³ per minute and samplers should operate for 24-hours, plus or minus one-hour. Filters were examined for tears, unusual wear, or change in color of particles. Torn or broken filters were not necessarily discarded if all pieces of the filter were present. If pieces of the filter were missing, then the filter was marked as an invalid sample. Any deviation was noted so that the sample could be qualified or invalidated.
- 4.3.1.7 Analytical QA/QC: To ensure the quality of the TSP filter analysis, the standard USACHPPM Analysis Spectrometry Division QA/QC procedures [15] were used. The procedures are comprised of four elements described briefly below. Before sample preparation, a randomly selected sample filter was divided into two parts. The second part is referred to as the pre-digestion duplicate sample. The pre-digestion duplicate was subjected to identical procedures as the other sample filters. The results from the predigestion duplicate must be within 20 percentage of the original. Another sample filter, other than the filter selected for the predigestion duplicate, was divided into two parts. A known quantity of the substance to be measured, called a "spike", is added to the second part. This sample was called the pre-digestion spike, or the laboratory fortified matrix. This filter is submitted to the identical analytical procedures as the other sample filters. Results from the pre-digestion spike must be within 30 percent of the original filter added to the mass of the spike. After preparation, a sample, other than a sample from one of the two from the QA/QC elements discussed above, was divided into two parts. A spike of the substance measured was added to the sample. This sample is called post-digestion spike. Results from the post-digestion spike must be within 15 percent of the original filter added to the mass of the spike. The laboratory control sample is performed identically to the pre-digestion spike for analysis of the TSP or personal filters.
- 4.3.1.8 Data Evaluation: To determine health effects due to ambient air quality, data was evaluated by comparing to the U.S. National Ambient Air Quality Standards [16]. EPA's health-based national air quality standard for lead is 1.5 micrograms per cubic meter ($\mu g/m^3$) measured as an annual maximum quarterly average concentration. EPA's health-based national air quality standard for PM-10 is 50 $\mu g/m^3$ (measured as an annual mean) and 150 $\mu g/m^3$ [16] (measured as a daily concentration).

4.3.2 Personal Air Samples.

- **4.3.2.1 Sampling/Analytical Equipment**: Personal air samples were collected using a series of SKC Low Volume Personal Air Samplers. Using cellulose ester filters, these units collect air samples that can be analyzed for a variety of metals including Lead, Cadmium, Beryllium, Chromium, and Manganese.
- **4.3.2.2 Sampling Design**: A total of 31 samples were collected while monitoring 11 expectant mothers. Collectively, these results were used to indicate if the air is a primary route of lead exposure for children and developing fetuses.
- **4.3.2.3 Sampling Methodology**: Low volume personal samplers were operated in accordance with the U.S. National Institute for Occupational Safety and Health guidelines [17].

The sampler operated by drawing ambient air at a rate of 3 L/minute into a covered housing and through a cellulose ester filter. Samplers were placed on expectant mothers for up to 24 hours with filter replacement every eight hours to prevent clogging and pump replacement every eight hours to ensure an adequate power supply. Eleven expectant mothers were monitored over the eight-day sampling event.

- **4.3.2.4 Analytical Methods**: All the filters were analyzed for trace metals, including Pb, Cd, Cr, Be and Mn, by the National Institute of Occupational Safety and Health (NIOSH) Method 7300, 4th edition [18].
- **4.3.2.5 Data Collection and Sample Handling**: The Russian team collected all samples and supporting data. An initial training on sampling procedures was provided. Samples were turned in by the Russian team for recording and analysis.
- ${\bf 4.3.2.6~Sampling~Quality~Assurance/Quality~Control~(QA/QC)~and~Data~Acceptance~Criteria}$
- **4.3.2.6.1 Calibration Procedure**: SKC high flow air sampling pumps were used for heavy metals sample collection, and were calibrated to a constant 3 LPM flow by using a Gilian Gilibrator. All pre and post calibration procedures were followed. A total of 1440 liters of air were passed through the sample collection media during the 8-hour sampling period for heavy metal sample collection.
- **4.3.2.6.2 Chain of Custody**: Chain of custody forms were initiated with the collection of the sampling media and maintained through analysis.
- **4.3.2.6.3 Blanks**: Field blanks were submitted to the environmental laboratory at a rate of 10 percent per total number of samples collected
- **4.3.2.6.4 Data Validation**: For a sample to be considered valid the flow rate must be maintained at 3 liters per minute and be collected for 8 hours. In addition filters were examined for tears, unusual wear, or change in color of particles. Any deviation was noted so that the sample could be qualified or invalidated.
- 4.3.2.7 Analytical QA/QC: An acid blank and 10 μ g/ml multi-element working standard were used by the laboratory in accordance with the NIOSH 7300 procedure [18].
- 4.3.2.8 Data Evaluation: The analytical results from the breathing zone air sampling were compared to both the U.S. Occupational Safety and Health Administration's (OSHA) 8-hour permissible exposure limits (PELs) [19] and the American Conference of Governmental Industrial Hygienist (ACGIH) threshold limit values (TLVs®) [20] for lead. Both PELs and TLVs® are 0.050 mg/m³ and are legally accepted guidelines for airborne concentrations collected during routine work conditions under which it is believed that nearly all workers may be repeatedly exposed without adverse health effects. It is important to note that these recommended values are based on both industrial experience and human/animal experimental

studies. Generally, ACGIH TLVs® tend to be more stringent and are therefore used for reference by industrial hygienists when evaluating potential workplace health exposures. To assess potential health effects, the results of these breathing zone samples collected during this study were compared to the OSHA's threshold limit value of 50 micrograms per cubic meter [19].

4.4 Swipe Dust Samples

4.4.1 Sampling/Analytical Equipment

Dust swipe samples were analyzed on-site using a Niton X-Ray Fluorescence (XRF) Instrument, Model 700, Unit number U9152509LY using the Niton User's Guide Chapter 4 for Analyzing Thin Samples [21]. In addition, all dust swipe samples were brought back by the U.S. team and analyzed in the Det 3, AFIERA analytical laboratory at Kadena AB, Japan.

4.4.2 Sampling Design

Four of the six primary kindergarten selected by the Russian team were sampled for lead containing dust. The four kindergartens were selected randomly and sampling was conducted to assess the level of dust being tracked into the kindergartens or blown in through open windows. A total of 44 samples were collected to assess dust levels on floors, windowsills, window wells and play areas. Samples were collected from each site and brought to the SDES building for analysis. These samples were used as indicators of the lead content in the dust in and around the areas where children play.

4.4.3 Sampling Methodology

Dust swipe samples were collected using a damp (wetted with distilled water) 37-millimeter Whatman filter. The filter paper was taken directly from the original box at the location of sampling and saturated with distilled water. A 10-cm by 10-cm plastic template was placed over the sampling location and the filter paper was wiped using sequential "S" motions across the entire 100 square centimeter surface area in two perpendicular directions. Samples were collected in accordance with the U.S. Department of Housing and Urban Development Guidelines [8]. U.S. team members completed all dust sample collection. Each sample was then folded with the contaminated side of the filter closed inside the fold. Samples were placed one to a bag in ziploc® bags and delivered for analysis. Periodically blank swipe samples were collected by following the procedures mentioned above with the exception that the filter was placed immediately into the ziploc® bag after being saturated. The template was cleaned between every sampling location with distilled water.

4.4.4 Analytical Methods

All samples were analyzed in ziploc® bags provided by the U.S. team members. Lead concentrations were directly measured using x-ray fluorescence in accordance with the Niton User's Guide, Chapter 4 Analyzing Thin Samples [21]. All analysis was done by licensed

operators from Det 3, AFIERA. All 44 samples were hand carried to the Det 3, AFIERA, Analytical Laboratory and also analyzed for total lead in accordance with EPA Method SW 846-7420 [3]. Lead was extracted from the filters using glacial acetic acid and sodium hydroxide and then analyzed by inductively coupled plasma atomic-absorption spectroscopy.

4.4.5 Data Collection and Sample Handling

Samples were analyzed on-site as they were made available. All samples undergoing laboratory confirmation analysis were carried to Det 3, AFIERA. Samples were assigned a tracking number in the field and tracked using field logbooks. Results were reported by analyte result, sampling site identifier, sample number, surface tested, and date collected. Field sheets were completed for each sample transported to the laboratory for analysis.

4.4.6 Sampling Quality Assurance/Quality Control (QA/QC) and Data Acceptance Criteria

To ensure the quality of dust analysis, the following procedures as indicated by Niton User's Guide [21] were followed:

- **4.4.6.1 Calibration Procedure**: Niton calibration was performed according to manufacturer's instruction and, at a minimum, included calibration at the start of each work day and once every two hours of operation.
- **4.4.6.2 Chain of Custody**: Chain of custody forms were initiated for all samples being delivered for laboratory analysis.
- **4.4.6.3 Data Validation**: In addition to the calibration procedures described in section 4.4.6.1, all samples were subjected to complete laboratory analysis following standard procedures.

4.4.7 Analytical QA/QC

To ensure the quality of the analysis, the standard USAF Det 3, AFIERA Analytical Division QA/QC procedures [5] were used. Each set of lead samples is run in conjunction with a commercial laboratory spike. Analytical variance from the known spike sample invalidates the results of the sample run.

4.4.8 Data Evaluation

To determine the potential health effects due to lead dust in the kindergartens, data was evaluated by comparison to the U.S. EPA clearance guidelines developed by the Department of Housing and Urban Development. The United States Environmental Protection Agency (EPA) established lead dust clearance levels of 50 ug/ft² (0.538 mg/m²) for floors, 250 ug/ft² (2.691 mg/m²) for window sills, 800 ug/ft² (8.611 mg/m²) for window wells. These standards are listed in 40 CFR Part 475 [22] and apply directly to lead removal projects. If the facility has levels exceeding these standards, it must be cleaned again prior to being occupied. Though not directly

applicable to existing facilities that have not been renovated, these standards can be used to identify areas that should receive special attention during routine housekeeping.

4.5 Surface Testing

4.5.1 Sampling/Analytical Equipment

Surfaces were screened for lead using a Niton X-Ray Fluorescence (XRF) Instrument, Model 309, Unit number U8184353LY in accordance with the Niton User's Guide, Chapter 5 Analyzing Lead Paint [23]. This unit allows direct measurement of lead concentration in surface layer without intrusive sampling.

4.5.2 Sampling Design

There were a total of six kindergartens selected by the Russian team for sampling as well as 22 homes of children with elevated blood lead levels. Surface testing was designed to identify the presence of lead-based paint on surfaces within the kindergartens and on playground equipment. Surface sampling was conducted in-place and destructive sampling was not required. Testing at each kindergarten ranged from 62 to 116 surfaces for a total of 542 kindergarten surfaces tested. Testing in the 22 homes ranged from three to ten surfaces each. These samples were used as indicators of the lead that children may come in contact with as they play on or near surfaces containing deteriorating paint.

4.5.3 Sampling Methodology

All surfaces were considered during testing because no historical paint use records were available. Surveyors completed representative testing on all surface types identified during walkthroughs of each facility. Testing at the kindergartens was completed primarily by U.S. team members with the assistance of Russian team members. U.S. team members in conjunction with Russian team members completed surface testing at the homes.

4.5.4 Analytical Methods

All samples were analyzed in place and the lead concentrations were directly measured using x-ray fluorescence in accordance with the Niton User's Guide, Chapter 5, Analyzing Lead Paint [23]. All analysis was done under the direct supervision of licensed operators from Det 3 AFIERA.

4.5.5 Data Collection and Sample Handling

Samples were analyzed in place therefore no collection was necessary. Samples were assigned a tracking number in the field and tracked using field logbooks. Results were reported by analyte result, sampling site identifier, sample number, surface tested, and surface color.

4.5.6 Sampling Quality Assurance/Quality Control (QA/QC) and Data Acceptance Criteria

To ensure the quality of surface analysis, the following procedures as indicated by Niton User's Guide were followed:

- **4.5.6.1 Calibration Procedure**: Niton calibration was performed according to the manufacturer's instruction and, at a minimum, included calibration at the start of each work day and once every two hours of operation.
- **4.5.6.2 Standards**: Commercially prepared field standards were used to verify the results of the XRF. At the start of each day and at least once every two hours, field standards were tested to ensure the XRF was not experiencing "drift." At no time during this survey did the XRF fail to accurately read the standards.

4.5.7 Data Evaluation

To determine the potential health effects due to lead in painted surfaces, data was evaluated by comparison to the HUD established surface paint limit of 1.0 mg/cm² [8]. Surface paint levels exceeding this level are considered to be lead-based paints and represent the potential for adverse human health affects.

4.6 Blood-Lead Screening

4.6.1 Sampling/Analytical Equipment

All blood samples were analyzed on-site using an ESA Lead Care Unit. This unit allows screening of a 50 μ l blood sample to assist in identifying high-risk children.

4.6.2 Sampling Design

There were a total of six kindergartens selected by the Russian team for sampling. Due to limitations established by kindergarten administrators, only four of the six kindergartens are the same facilities that had the environmental media sampled. Children were randomly selected based on their availability when the testing teams arrived at the kindergartens. The total number of children screened was based on the available supplies for the ESA Lead Care equipment. The numbers of children tested at each kindergarten ranged from 22 to 46. A total of 203 children had their blood screened for lead. The blood-lead screening results served as the only indicator of actual lead up-take by children from the various environmental media.

4.6.3 Sampling Methodology

The Russian team determined which kindergartens were selected for screening and in conjunction with the kindergarten administrators and teachers, they selected which students were

tested. All samples were collected by Russian team members using the finger stick method in accordance with the ESA Lead Care Operations Manual [24].

4.6.4 Analytical Methods

All samples were analyzed using the ESA Lead Care kit and procedures were done in accordance with the Lead Care Operations Manual [24]. Analysis is based on the electrochemical properties of a 50-microliter sample.

4.6.5 Data Collection and Sample Handling

Samples were screened on-site immediately following collection. Samples were assigned a tracking number in the field and tracked using field logbooks. Results were reported by sampling site identifier, sample number, and result analyte.

4.6.6 Sampling Quality Assurance/Quality Control (QA/QC) and Data Acceptance Criteria

To ensure the quality of blood screening analysis, the ESA Lead Care standards were periodically run and results were compared to commercially established concentrations. The method is a field screening method. Analytical QA/QC procedures do not apply until confirmation venous samples are collected and analyzed in an accredited laboratory.

4.6.7 Data Evaluation

The results of blood-lead screening were compared to the U.S. EPA guideline value of 10 μ g/dL [25] and the Russian guideline value of 8 μ g/dL [26] to determine the impact environmental sources of lead may have on area children. These results were applied to identify children that had elevated blood-lead levels and have an elevated health-risk associated with lead uptake.

5.0 DISCUSSION OF RESULTS

5.1 Soil/Bulk Paint

Results from the soil and bulk paint testing are found in Appendix A. A total of 202 soil and 2 paint bulk samples were collected and analyzed using the Niton XRF. In addition, 19 samples (18 soil and 1 bulk paint) were randomly selected for duplicate analysis using laboratory procedures to confirm the Niton XRF readings. Generally, with two exceptions (samples V99S2107 and V99S2195), there was excellent agreement between the Niton XRF readings and the laboratory results (Table 2). Subsequent analysis of V992107 using the NITON resulted in six tests confirming lead concentrations less that 50 mg/kg. Subsequent analysis of V992195 was not possible because all available soil was used during the test for leachable lead. The discrepancy in the two samples is most likely due to the non-homogenous nature of the soil samples and the difference in the two testing procedures and does not indicate the Niton XRF readings were inaccurate.

TABLE 2. Comparison of Results From Niton XRF and Laboratory

Sample	NITON XRF (mg/kg)	Lab Result (mg/kg)
V99S2002	<42	<50
V99S2009	<41	<50
V99S2017	35	<50
V99S2019	<49	58
V99S2025	<50	<50
V99S2029	<44	<50
V99S2034	<36	<50
V99S2036.1	162	207
V99S2053	<38	58
V99S2064	118	123
V99S2079	113	160
V99S2087	<39	<50
V99S2107	194	<50
V99S2118	<41	<50
V99S2195	72	72
V99S2157	<32	<50
V99S2167	<31	<50
V99S2195	<42	623
V99C2300*	25,344	49,800

*Paint Chip (Niton XRF showed lead in the sample exceeded 5 mg/cm² and a screen of the sample using the Niton XRF indicated a lead concentration of 25,344 mg/kg)

Soil samples in the U.S. with lead concentrations exceeding 400 mg/kg would generate concern. Response actions would depend on the individual circumstances, but in areas where children may come in contact with the soil, some type of control action would occur for soils with levels ranging from 400 mg/kg to 2000 mg/kg [6]. Soil removal would occur anytime lead concentrations exceed 2000 mg/kg. The Russian team members indicated that 40 mg/kg would be considered their "normal" value and anything over 100 mg/kg [7] would get attention. A total of 65 soil samples exceeded the Russian normal value and there were an additional 49 samples where the Niton XRF detection limit was greater than 40 mg/kg (Table 3). It is possible that 114 of the 202 soil samples collected exceeded the Russian "normal" value for lead in soil. No soil samples exceeded the U.S. guideline value [6].

TABLE 3. General Summary of Soil and Paint Chip Testing

	Total	# Samples	# Samples	# Samples Exceeding Russian
	Samples	Analyzed	Exceeding U.S.	Guidelines [7]
	Collected	On-Site	Guidelines [6]	
			0 soil	63 soil samples plus 50 with a
1	204	204	2 paint chips	detection limit above 40 mg/kg

Soil samples were collected at the following "strategic" locations: near roads where lead could be coming from the exhaust of cars using leaded gasoline, near buildings and entrances where leaded paint could be peeling and entering the soil, and in/around playground equipment where children frequent. Lead was found at most of the sites sampled (Table 4.)

TABLE 4. Summary of Soil and Paint Chip Testing Results by Facility and Sampling Location

				# Samples ve	rsus # Positive	Samples for ea	ch Category
					Other		Samples
			#		Playground	Samples	Near the
	#	Range	Positive	Sandbox	Area	Near	Fence or
Bldg#	Samples	(mg/kg)	Samples#	Samples	Samples	Buildings	Road
109	24	<27-42	2	20/2 (10%)	0 (0)	3/0 (0)	1/0 (0)
113	26	<39-118	12	15/4 (27%)	4/2 (50%)	4/4 (100%)	3/2 (67%)
132	31	<36-210	18	20/9 (45%)	0 (0)	6/6 (100%)	5/3 (60%)
138	26	<33-113	6	17/2 (12%)	0 (0)	5/2 (40%)	4/2 (50%)
141	40	<34-162	11	20/6 (30%)	11/3 (27%)	9/2 (22%)	0 (0)
162	33	<33-243	7	20/1 (5%)	3/1 (33%)	3/0 (0)	6/4 (67%)
Totals	180	<27-243	56	112/24 (21%)	18/6 (35%)	30/14 (47%)	19/11 (58%)
Paint	2	15616-	2				
Chips*		25344					
Housing	22	<33-396	9				
	204		67				

Paint chips collected from playground giraffe at school 109 to confirm Niton XRF readings

5.2 Water Samples

Complete results from the water testing are found in Appendix B. All quality assurance and quality control samples tested within acceptable limits and the data is considered valid. A total of 97 water samples were tested for lead and all were below the World Health Organization guideline value of $10 \mu g/l$ (Table 5) [10].

TABLE 5. Summary of Water Testing

Building #	# Total Samples	# Samples with Lead Detected	# Samples Exceeding World Health Guidelines	
109	6	0	0	
113	11	0	. 0	
132	8	0	0	
138	4	0	0	
141	6	0	0	
162	. 8	0	0	
Housing	42	1 at 2 μg/L	0	
Reservoir/Supply	12	0	0	
Totals	97	1	0	

5.3 Air Samples

5.3.1 General Area

Results from the general area air testing are found in Appendix C. All blank samples and analytical quality assurance and quality control samples tested within acceptable guidelines and the data is considered valid with the exception of one sample marked invalid as a result of equipment problems. Although several air samples were "screened" using the Niton XRF, all results reported below are from analysis of the samples brought back for laboratory testing. There was good agreement between the Niton XRF screening results and the laboratory testing results.

Over the 8-days of sampling, a total of 36 general air samples were collected (21 TSP and 15 PM-10). Although lead and particulates were detected, the concentrations did not exceed U.S. guideline values (Table 6) [16]. The PM-10 results demonstrated particulate levels that might exceed the U.S. annual guidance level of 50 μ g/m [16] if the samples collected over the 8 days are representative of average annual values.

TABLE 6. General Area Air Sampling Summary

Bldg.	TSP Samples	TSP Range	PM 10	PM 10 Range	PM 10 Above
	Samples	$(\mu g/m^3)$	Samples	$(\mu g/m^3)$	Annual Mean Limit
109	0		4	51-67	3
113	6	0.049-0.14	0		
132	3	0.082-0.15	3	40-59	1
138	4	0.054-0.18	2	52-78	2
141	6	0.054-0.15	2	43-76	1
162	2	0.038-0.039	4	10-42	0
Totals	21	0.038-0.18	15	10-78	7 .

5.3.2 Personal

Complete analytical results for the breathing zone monitoring of the eleven expectant mothers are found in Appendix C. A total of 31 air samples were collected while monitoring for up to 24 hours. Lead was not detected in any of the breathing zone samples (Table 7)

TABLE 7. Summary of Personal Air Lead Sampling

Total Samples Collected	Range of Results (μg/m³)	# Samples Exceeding U.S. Guidelines [17]
31	<0.5-<49*	0

^{*}Only one of the 31 samples had a detection limit of 49 μ g/m³ all other samples were less than 0.5 μ g/m³

5.4 Swipe Dust Samples

All results from the swipe sampling are found in Appendix D. The laboratory analyses confirmed the field analytical procedures and no discrepancies were noted. All blank samples tested negative for lead indicating that lead was not introduced during the sampling/analytical procedures. As shown in Table 8, only 2 of the 44 dust samples exhibited levels that exceeded recommended guideline values [22] and only 6 of the 44 samples had any detectable levels of lead (Table 9).

TABLE 8. General Summary of Dust Swipe Lead Samples

Total Samples	# Samples	# Samples Analyzed at	# Samples Exceeding U.S.
Collected	Analyzed On-Site	an Off-Site Lab	Guidelines [22]
44	44	44	2

TABLE 9. Lead Results for Dust Swipe Sampling by Facility and Sampling Location

Bldg.#	# Samples	Range (μg/100 cm ²)	Positive Results	Window Sill Samples	Floor Samples	Window Well Samples	Samples from Other Surfaces	Results Exceeding U.S. Guidelines [22]
109	14	<10-16	3	6	. 6	0	2	0
113	14	<10-115	1	4	4	4	2	1 Win-Sill
141	9	<10-42	2	3	4	0	2	1 Floor
162	7	<10	0	3	4	0	0	0
Total	44		6	16	18	4	6	2

5.5 Surface Testing

Detailed results of the surface testing are found in Appendix E. All results were obtained using the Niton XRF and calibration runs were completed often during the testing and there were no indications of any problems. The Russian team selected the schools to be visited and teachers or directors at the kindergartens selected the rooms to be tested. Rooms that were most often used by children were the ones evaluated. Once in a room, the U.S. team members determined the surfaces to be evaluated. Each painted surface in each room that could be contacted by a child was tested. In addition to the schools, 22 homes of children with elevated blood lead levels were also tested. A total of 671 tests were performed and 119 of the surfaces exceeded the U.S guideline value (1 mg/cm²) for lead (Table 10) [8].

TABLE 10. General Summary of Surface Testing

Total * Samples Collected	# Samples Analyzed On-Site	# Samples Exceeding U.S. Guidelines [8]
671	671	119

^{*} Does not include 29 calibration "shots" done on-site

Painted surfaces containing trace to significant amounts of lead were found at all kindergarten locations on various materials (Table 11). Lead concentrations varied from non-detect to over 5 mg/cm². Approximately 14 percent of the surfaces tested above the U.S. guideline value [8].

TABLE 11. Surface Testing Lead Results by Facility

Bldg. #	Total # Samples	Range of Results (mg/cm²)	# Results Exceeding U.S. Guidelines [8]	Materials Containing Lead-Based Paint
				Yellow Shelves, Desk Playhouse, and Playground Equip, Beige Rocking Horse, Red Toy Block and Baseboard, Green Toy Block and Playground Equip,
109	91	0.00 - >>5.00	18	Brown Baseboard, Blue Playground Equip
113	94	0.00 - 2.02	2	Orange Door Frame, Yellow Rocking Horse
132	62	0.00 - >>5.00	13	Orange Baseboard, Yellow Toy Block and Playground Equip, Blue Green and Beige Playground Equip
138	96	0.00 - >>5.00	7	Orange Baseboard, Yellow Toy Block, Pink Handrail, Blue Playground Equip, Green Bench
141	116	0.00 - >>5.00	17	Brown Baseboard Rocking Horse, Yellow Rocking Horse Toy Bus and Block, Bench, Stairs, Playground Equip, Orange Baseboard, Toy Truck, Table Blue Toy Block, Pink Stairs, Red Playground Equip
162	83	0.00 - >>5.00	21	Green Playground Equip, Bench and Toy Block Yellow Toy Block, Bench and Playground Equip, Red Toy Block, Orange Wood Cabinet
Total	542		78	

Lead was found on painted surfaces in all of the private residences visited. In 16 of the 22 residences, the lead concentration exceeded the U.S. guideline values (Table 12) [8]. Values ranged from non-detect to over 5 mg/cm². Typically, the lead was found in yellow paint on the floors and baseboards.

TABLE 12. Private Home Surface Testing Lead Results

		Range of	# Results	I
	Total #	Results	Exceeding U.S.	Materials Containing Lead-Based
Bldg. #	Samples	(mg/cm ²)	Guidelines [8]	Paint
147, Apt 52	5	0.04 - 3.73	2	Brown Floor
21/1, Apt 46	3	0.02 - 0.61	0	
Mil City #18	6	0.01 - 1.14	1	Brown Baseboard
16, Apt 73	10	0.01 - 3.08	4	Orange Floor, Pink Door
6, Apt 65	8	0.00 - 1.32	3	Yellow Floor
19/2, Apt 52	5	0.01 - 1.29	1	
40, Apt 29	6	0.05 - 3.14	3	Brown Baseboard
1a, Apt 53	7	0.14 - 3.72	3	Yellow Floor
3, Apt 85	5	0.03 - 2.05	3	Yellow Door Frame, Floor
44, Apt 28	8	0.00 - >>5.00	4	Orange Baseboard, Yellow Floor
53/1, Apt 20	6	0.00 - 0.91	0	
26, Apt 118	6	0.00 - 1.17	2	Orange Floor, Yellow Floor
10, Apt 105	7	0.02 - 0.29	0	
43, Apt 10	7	0.00 ->>5.00	2	Yellow Floor
26, Apt 72	3	0.00 - 0.61	0	
5, Apt 22	6	0.02 - 3.62	1	Baseboard
15, Apt 123	5	0.09 - >>5.00	3	Yellow Baseboard, Yellow Floor
				Yellow Floor, Orange Floor,
23, Apt 134	6	0.09 - 3.40	4	Brown Baseboard
39, Apt 8	7	0.02 - 0.81	0	
9, Apt 29	4	0.05 - 3.45	3	Yellow Floor, Yellow Closet
56, Apt 942	4	0.00 - 0.53	0	
11, Apt 323	5	0.08 - 1.28	2	Yellow Baseboard, Yellow Floor
Total	129		41	

Overall, surfaces painted yellow were most often found to contain lead followed by those painted green and orange (Table 13). The table may be misleading in that the colors shown are the "surface" colors and for objects that have multiple coatings of paint the lead may not be found in the surface layer. The Niton XRF will indicate if it is detecting lead on the surface or in a deeper layer. When the Niton XRF indicated that the lead was in a deeper layer the U.S. team attempted to locate the color responsible but it was not always possible.

TABLE 13. Positive Surface Lead Testing Results by Color

	Yellow*	Green	Orange	Pink	Blue	Beige	Red	Brown	Totals
Schools									
- Inside Surfaces	2/1	0	9/3	1/0	0	0	1/0	2/1	
- Toys, Inside	12/10	8/6	2/2	0	1/1	1/0	2/2	1/0	
- Outside Surfaces	1/1	2/1	0	1/1	0	0	0	0	
- Playground	18/10	6/4	0	1/1	5/2	1/0	1/0	0	
Equipment									
Subtotals	33/22	16/11	11/5	3/2	6/3	2/0	4/2	3/1	78/46
Housing									
- Floors	14/9		7/0					3/1	
- Baseboards	5/3		1/0					4/0	
- Door/ Door Jamb	1/1			1/0					
- Closet Door									
Subtotals	20/13		8/0	1/0				7/1	36/14
Grand Total	53/35	16/11	19/5	4/2	6/3	2/0	4/2	10/2	114/60

*First number is the number of positive tests of that color over 1 mg/cm² and the second number is the number of positive readings that indicate lead in the surface layer. A total of 5 positive samples could not be attributed to a color.

Toy blocks constituted a significant number of the painted surfaces tested as the blocks were used frequently by the children, were often well worn, and could be placed in the children's mouth. Significant amounts of lead (>1 mg/cm²) were found in many, but not all yellow and green blocks. Most of the other block colors did not contain significant levels of lead (Table 14)

TABLE 14. Summary of Lead Testing on Toy Blocks

	Yellow*	Green	Blue	Red	Pink	Orange	White
Number/Pos/Trace	35/6/18	30/8/8	26/1/4	25/2/6	2/0/1	1/0/0	1/0/0
%/% [#]	15/57	27/27	4/15	8/24	0/50	0/0	0/0

*First number is the number of tests of that color, next is the number of tests over 1 mg/cm² and the final number is the number of positive readings where trace amounts (i.e., .1-. 99 mg/cm²) were found.

*First number is the percent of the samples with lead values exceeding 1 mg/cm² and the next number is the percent of samples where trace amounts (i.e., .1-. 99 mg/cm²) were found.

The previous tables mentioned several different painted surfaces that contained lead. Following are photographs and brief discussions of typical lead sources. Figure 1 shows the baseboard in the 3-year old playroom at school 141 that had a lead concentration of 1.5 mg/cm² (sample V99C462). Figure 2 shows typical rocking horses seen at most of the kindergartens. They were generally painted yellow and a majority of the yellow paint tested positive for lead.

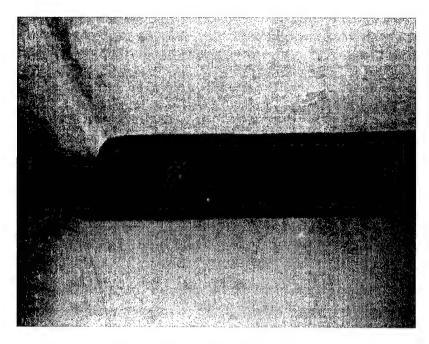


Figure 1. Brown/Orange Molding at School 141.



Figure 2. Yellow Rocking Horses at School 141.

The yellow paint shown (sample V99C5456) tested positive for lead at a level of 3.3 mg/cm². In addition, a dust wipe sample (V99D3040) was collected from the horse to see if lead could be "picked up" from normal contact with the play toy. The sample tested positive for lead at 42 $\mu g/100~cm^2$. Although the level of lead in the swipe sample may not be significant (i.e., does not exceed a standard), it does demonstrate that lead can be "picked up" from contact with the toy.

Figure 3 shows a table (sample V99C552) located in the 5-year old playroom where the paint tested positive for lead at a level of 4.2 mg/cm².



Figure 3. Orange Table at School 141.

Figure 4 shows a bench also located in the 5-year old playroom. The bench (sample V99C5528) exhibited a lead concentration exceeding 5 mg/cm². Although the Niton XRF reading indicated that the lead was present below the surface, only the yellow color could be seen.



Figure 4. Yellow Bench at School 141.

Figure 5 shows a multicolored playground ladder at School 141. The yellow painted surface (sample V99C5505) tested positive for lead at a level of 4.1 mg/cm². The Niton XRF suggested the lead was present 2 layers deep but only the yellow paint was observed in the worn areas.



Figure 5. Multicolored Playground Ladder at School 141.

Figure 6 shows the typical multicolored blocks found at all schools. Table 13 shows the breakout of lead content by color. The yellow and green blocks were the colors that most often contained lead of the seven different colors tested. Although green blocks had the highest percentage of blocks with lead concentrations exceeding 1 mg/cm², trace amounts (.1 to .99 mg/cm²) of lead was found in 57 percent of the yellow blocks. School personnel were shown the blocks anytime lead levels were found that exceeded 1 mg/cm².



Figure 6. Typical Multicolored Blocks at All Schools.

Figure 7 shows a yellow playhouse at School 109. The yellow paint on the toy house (sample V99C5316) had a lead concentration of 1.3 mg/cm². The house was located in the 5-6 year old playroom. In the same room there were yellow shelves (sample V99C5317) that showed a lead concentration exceeding 5 mg/cm².



Figure 7. Yellow Playhouse at School 109

Figure 8 shows a tan door jam at School 113. The tan paint on the door jam (sample V99C5004) exhibited a lead concentration of 1.2 mg/cm². The Niton XRF indicated that the lead was located below the surface but no other color of paint could be identified. The door jam was freshly painted. Door jams are of special interest because of the wear the paint receives by opening and closing doors and people walking across them. Over time the paint will wear creating a fine dust. If lead is present it can then be easily transported.



Figure 8. Tan Door Jam at School

Figure 9 shows a sandbox at School 132. The yellow sandbox (sample V99C5251) tested positive for lead with a concentration of 4.1 mg/cm². As can be seen the box is used often and children come in direct contact with the lead containing paint. A soil sample (V99S2041) from a sandbox located at School 132 exhibited a lead concentration of 68 mg/kg. Also of note are the toy giraffes located in the background of the photo. See Figure 10 for a close-up.



Figure 9. Sandbox at School 132.

These types of toy giraffes were found at most of the kindergartens and were typically painted yellow. The yellow paint (sample V99C5240) shown tested positive for lead at a concentration exceeding 5 mg/cm². Children were observed climbing and playing on the giraffes and although the equipment was well maintained, the paint was peeling and flaking off. Samples (V99C2300 and 2301) of the flaking paint were collected from a giraffe at School 109 and brought back to the laboratory to confirm the high readings obtained from the Niton XRFs. These samples exhibited very high levels of lead exceeding 25,344 mg/kg. Play items such as these where the children come in contact often and the paint wears easily may represent a significant source of lead.



Figure 10. Playground Giraffes at School 132.

Figure 11 shows a multicolored merry-go round at School 162. The green and yellow paints (samples V99C5373 and V99C5374, respectively) contained significant levels of lead (greater than 5 mg/cm²). It was difficult to tell if the green paint was actually the source of lead as the Niton XRF reading indicated the lead was located 2 layers deep and yellow paint was observed below the green. The equipment was worn and much of the paint had deteriorated. Also note the freshly painted yellow pole to the left of the person in the photo. This paint (sample V99C5364) was found to contain lead at a concentration of 2.0 mg/cm².

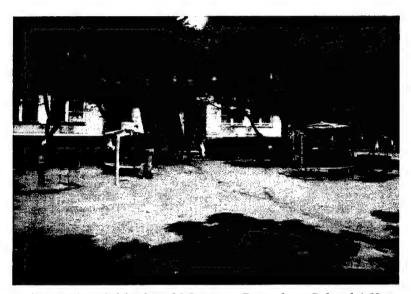


Figure 11. Multicolored Merry-go Rounds at School 162

Figure 12 shows a pink stair rail at School 138. One of the few examples of a color other than yellow that tested positive for lead. The pink handrail (sample V99C5180) showed a lead concentration of 1.6 mg/cm²

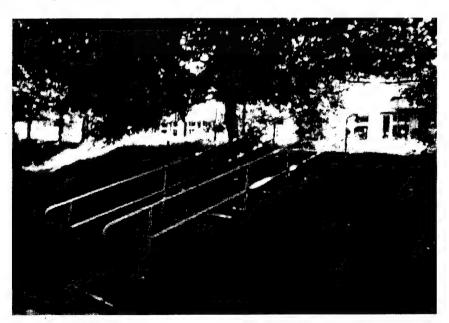


Figure 12. Pink Stair Rail at School 138.

5.6 Blood-Lead Screening

Detailed results from the blood lead testing are found in Appendix F. Blood samples (finger prick method) were taken from 203 children selected by the Russian team. Of the 203 children tested, 39 (19 percent) had blood lead levels that exceeded the U.S. standard of 10 μ g/dl and 55 children (27 percent) had blood lead levels that exceeded the Russian standard of 8 μ g/dl. Lead was found in the blood of children from each school varying in range from 0.2 to 28 μ g/dl (Table 16). School 162 had the highest percentage of children test above the Russian standard (50 percent) and accounted for the highest blood level reading (28 μ g/dl).

Building Number	Total # of Children Sampled	Range (µg/dl)	Mean	Standard Deviation	% Exceeding U.S. Guidelines [25]	% Exceeding Russian Guidelines [26]
18	20	0.4-13.7	4.8	3.5	10.0	10.0
109	45	3.0-18.0	7.3	3.4	15.5	28.9
132	26	0.2-17.6	4.5	3.7	3.8	15.4
141	35	1.6-17.0	7.7	3.7	31.4	37.1
162	30	1.0-28.0	10.2	7.5	40.0	50.0
169	47	1.3-16.0	5.7	3.3	12.8	17.0
Total	203	0.2-28.0	6.8	4.6	19.2	27.1

TABLE 15. Summary Results of Blood Lead Testing

A significant amount of environmental data was generated during the 11-day investigation. Tables 16 and 17 provide a summary of all the results from testing across all the media sampled and analyzed.

5.7 Metals Other Than Lead

5.7.1 Metals In Soils

In addition to lead, field screening of soil samples included analysis for thirteen other metals listed in Table 18. A review of these results has been conducted to identify any significant trends or concentrations that may indicate a potential health risk. Due to the varying natural background concentrations of many metals, the U.S. EPA has not established acceptable contamination levels for these metals. However, the Region 9 Office of the U.S. EPA has established Preliminary Remediation Goals (PRGs) [27] for many metals to serve as guidelines for acceptable residual concentrations after a contaminated site has been remediated. Lacking a better reference guideline, these values have been used to assess relative risk from the soils analyzed during this survey. PRGs for both residential and industrial sites are available. For this review, the residential PRGs were used to provide a more conservative assessment for establishing risk to the kindergarten patrons. If background soil concentrations for the Vladivostok area are available for these metals, comparing them to this study's results would

assist in identifying localized "hot spots" associated with the kindergartens. If background concentrations are not available, identifying them should be considered before similar projects are conducted in the future.

Of the metals analyzed, only arsenic, mercury, and iron had results above the Region 9 PRGs [27]. One of the samples from kindergarten 138 (local sample #9) exceeded the PRG for arsenic while one of the sandbox samples from kindergarten 132 (local sample #19) exceeded the PRG for mercury. Collectively, the results do not indicate that either kindergarten 132 or 138 have a significantly elevated risk factor as a result of the arsenic or mercury, however a further review for mercury and arsenic in these areas may be warranted. Many samples contained iron levels in excess of the PRGs, however the wide range of concentration for naturally occurring iron may account for these values. All other results show metal concentrations well below the PRGs and do not suggest an elevated health risk for children playing in these soils.

TABLE 16. Comprehensive Summary of Testing From All Media Based on Number of Samples by Facility

ce		>Std	8			81	2	13	7	17	21		78	41		119
Surface		Ê				91	94	62	96	116	83		542	129		129
ıst		>Std	[22]			0	-			-	0		2			2
Dust		Z				14	4]			6	7		44			44
	PM-	10	>Std	[16]		3		_	2	-	0		7			7
ľ	PM-10	2				4	0	3	2	2	4		15			\$
Air	TSP	>Std	[91]			0	0	0	0	0	0		0			0
	TSP	Z				0	9	3	4	9	2		21			21
Water		>Std	[10]			0	0	0	0	0	0			-		
M		Z				9	=	∞	4	9	∞		43	42	12	- 6
	> Rus	Std [26]			2	13		4		13	15	8	.55			55
Blood	> NS	Std	[25]		2	7		1		11	12	9	39			39
		Z			20	45		26		35	30	47	203			203
	> Rus	Std [7]				2	22	20	6	28	23		104	10		114
Soil	SO <	Std [6]				0	0	0	0	0	0		0	-	2	3
S		Positive				2	12	18	9	11	7		95	6	2	またがらない
		Z				24	26	31	26	40	33		180	23	2	205
Bldg.					18	601	113	132	138	141	162	169	Sub Total	Housing	Paint Chips	Total

TABLE 17. Comprehensive Summary of Testing From All Media Based on Percentages of Samples by Facility

Ď		%>Std		8.61	2.1	21.0	7.3	14.7	25.3		14.4	31.8		17.7
Surface				-			_	-	_			L		.34
-	_	Z	1	91	94	62	96	116	83	_	542	129	L	671
Dust		%>Std		0.0	7.1			11.1	0.0		4.5			4.5
		Z		14	14			6	7		44			44
	PM-10	%>Std		75.0		33.3	100.0	50.0	0.0		46.7			46.7
Air	PM-10	Z		4	0	3	2	2	4		15			15
	LSP %	>Std			0.0	0.0	0.0	0.0	0.0		0.0			0.0
	TSP	$\widehat{\mathbf{z}}$		0	9	3	4	9	2		21			21
Water	%	>Std		0.0	0.0	0.0	0.0	0.0	0.0			2.4	0.0	1.0
×		(N)		9	=	∞	4	9	8		43	42	12	- 6
	< %	Rus Std	10.0	28.9		15.4		37.1	50.0	17.0	27.1			27.1
Blood	< %	US Std	10.0	15.6		3.8		31.4	40.0	12.8	19.2			19.2
		(N)	20	45		56		35	30	47	203			203
	^ %	Rus Std		8.3	84.6	64.5	34.6	70.0	69.7		57.8	43.5	0.0	55.6
Soil	^ %	US Std		0.0	0.0	0.0	0.0	0.0	0.0		0.0	4.3	100.0	1.5
J1		Positive		8.3	46.2	58.1	23.1	27.5	21.2		31.1	39.1	100.0	
		$\widehat{\mathbb{Z}}$		24	56	31	26	40	33		180	23	2	205
Bldg.			18	109	113	132	138	141	162	691	Sub Total	Housing	Paint Chips	Total

TABLE 18. Metal Concentrations in Soil Samples

	Residential Soil PRG*		Typical	Detected Levels Above PRG	
Metal	(mg/kg) [27]	Range (mg/kg)	(mg/kg)	(mg/kg)	Location
Molybdenum	390	<6.3-<50	<10	None	
Zirconium	No PRG	33.1-1475.2	60-130	NA	
Strontium	47000	20.9-218.2	60-120	None	
Rubidium	No PRG	19.4-123.5	60-80	NA.	
Arsenic	22	<22-<47.1	<31-<37	37.4+/-21.4	K138 Near the Building
Mercury	23	<20.0-<61.4	<25-<35	32.1+/-20.1 41.0+/-24.0	K132 Sandbox Training Test
Zinc	23000	<44.7-1332.8	Varied	None	
Copper	2900	<99.1-<372.0	<140-<180	None	
Nickel	1600	<136.2-<520.8	<170-<260	None	
Cobalt	4700	<172-<897.6	<300-<550	None	
Iron	23000	4240.0- 259686.4	17000- 45000	Multiple Samples	
Manganese	1800	<559.5-<4953.6	<600-<900	7526.4+/- 2801.6	Invalid Test
Chromium	100000	<441.9-<2191.0	<700-<1100	None	

^{*} PRG Preliminary Remediation Goal

5.7.2. Airborne Metals

Air samples collected to quantify lead levels in ambient air (Total Suspended Particles (TSP)) and personal breathing zone air were also analyzed for cadmium, beryllium, chromium, and manganese. The U.S. EPA has not established acceptable guidelines for these metals with the exception of beryllium, for which the EPA has established a permitted industrial concentration of 2 μ g/m³ averaged over eight hours [16]. The U.S. Occupational Safety and Health Administration (OSHA) has established forth hour workweek limits that healthy workers can be exposed to these metals [19]. These OSHA guidelines are not appropriate to assess the risk to pregnant women or children, but are presented here as a basis for comparison. To accurately assess the risk to these vulnerable groups, more stringent guidelines should be established. However, a review of the sampling data for both general and personal breathing zone samples demonstrate only trace levels of any of these metals and do not suggest a significant risk to pregnant women or children.

TABLE 19. Metal Concentrations in Air Samples

	OSHA 8 hr worker Stds			Detected Levels
36.41	į.	_		Above OSHA
Metal	(μg/m3)	Range (µg/m3)	Typical (µg/m3)	Std [19]
TSP Area				
Samples				
Cadmium	5.0	0.00035-0.011	0.00035-0.00078	None
Beryllium	2.0	< 0.00015-0.00075	< 0.00016-0.00027	None
	C5.0			
Chromium	1000.0	0.048-0.17	0.05-0.1	None
Manganese	C5000.0	< 0.0065-0.011	< 0.007-0.009	None
SKC	OSHA 8 hr	Range (µg/m3) for	Typical (µg/m3)	Levels Above
Personal	worker Stds	8-hour samples	Values for 8-hour	OSHA Std
Samples	$(\mu g/m3)$	•	samples	Extrapolated for
			•	24-hr Exposure
Cadmium	5.0	<0.086-<8.4	< 0.086	None
Beryllium	2.0	<0.017-<1.6	< 0.017	None
	C5.0			2.0110
Chromium	1000.0	<0.17-<21	< 0.21	None
Manganese	C5000.0	<0.14-<13	< 0.14	None

6.0 CONCLUSIONS

6.1 By Sample Media

6.1.1 Soil/Bulk

Lead is present in many of the soils near the kindergartens and housing units; however, all sample results are below the U.S. guidelines [6][8]. When compared to Russian guidelines [7], there are 13 samples with lead concentrations above 100 ppm and an additional 50 samples with lead concentrations above 40 ppm. In addition, 50 samples did not have lead detected, but the field detection level was above the Russian normal standard of 40 mg/kg. Nineteen samples were selected randomly and "split" for laboratory analysis. Four samples were selected for additional testing to evaluate how much of the lead in the soil was soluble. The lead in the soils tested was shown to be immobile as no lead was detected in the leaching tests. Although lead was detected in most soils, the levels would not indicate the soils are a significant exposure source.

6.1.2 Water Samples

With the exception of one sample collected in housing (Uliyanovskaya 10-105), lead was not detected ($< 2 \mu g/L$) in any of the remaining samples. The one sample that indicated the presence of lead showed a concentration at the level of detection of 2 $\mu g/L$. Even though lead was detected, it is near the detection limit and well below the U.S. and WHO guidelines for lead contamination in drinking water. Water testing results indicate that water is not a source of lead in the Vladivostok region.

6.1.3 Air Samples

The sampling did not indicate any areas where airborne lead concentrations exceeded allowable limits according to U.S. guidance [16][17]. All area samples showed only trace amounts of airborne lead while personal sample results were all below the detection limits which ranged from 0.5-49 $\mu g/m^3$. All samples collected for PM 10 indicated that airborne respirable particle concentrations do not exceed U.S. guidance for 24-hour exposures. However, if the sample concentrations represent typical ambient levels throughout the year, seven of the samples exceeded U.S. guidance [16]. These results do not directly correlate to lead exposure, but indicate a high level of all types of respirable particles. The air testing results suggest that air does not represent a significant source of lead. Lead was detected in the air samples below U.S. guidelines, but it should be noted that the samplers were set-up on roofs and the results would not representative of ground level concentrations. It is possible that higher lead concentrations are present at ground level especially near roads.

6.1.3.1 General Area: Low levels of lead and other trace metals were detected in the TSP samples, although none of the samples exceeded the EPA threshold levels for lead in ambient air [16]. All the samples collected during this sampling period represented ambient air in the kindergarten area, where the samplers were located on rooftops or ledges. Other sampling locations, such as high traffic intersections, should be monitored to determine the effect of automobile exhausts. Air monitoring should be conducted through out the year to determine seasonal effects and provide data needed to perform trend analysis.

The results of PM-10 samples indicate potential for short-term exceedence of breathable particulate matter. Further sampling at different locations including high traffic areas is needed to better characterize the ambient air quality.

6.1.3.2 Personal: Results of personal air sample indicated that none of the samples exceeded the OSHA 8-hour permissible exposure limits (PELs) [19] and the American Conference of Governmental Industrial Hygienist (ACGIH) threshold limit values (TLVs®) [20] for lead. However, the personal air samples represented household environment where lead concentrations are typically monitored by dust sampling. In order to determine exposures in work environments, it is recommended that personal air monitoring be conducted for various occupations in industrial settings.

6.1.4 Swipe Dust Samples

Kindergartens were very clean and well maintained by the staff. In building # 113, the positive sample was collected from the area where the window and the window frame rub on each other as the window is opened and closed. Because of the abrasion from opening and closing windows, special attention should be given to keeping these surfaces clean and maintaining the integrity of painted surfaces. The floor sample in building # 141 that exceeded the U.S. standard [22] is most likely a result of children tracking lead dust in from the playground equipment. Additional emphasis on mopping the floors would help control this potential route of lead exposure. Overall, dust does not appear to be a significant lead exposure source.

6.1.5 Surface Testing

All the kindergartens and 16 of the 22 homes were found to contain lead-based paint (i.e., paint with lead > 1.0 mg/cm²). In the kindergartens, more than seventy five percent of the lead-based paint identified was found on toys used inside the kindergartens or on playground equipment. The yellow paint consistently tested positive as lead-based paint accounting for more than forty percent of the positive samples. This is followed by the green paint that accounts for an additional twenty percent of these positive results. The orange paint used inside the kindergartens accounts for more than fifty percent of the samples indicating lead-based paint on the kindergarten interior surfaces. In addition to these colors, red, brown, blue, beige, and pink surfaces occasionally tested positive as lead-based paint on a variety of surfaces. In the housing, fifty six percent of all samples indicating lead-based paint were yellow. In addition to the

yellow, the brown and orange account for another forty one percent, while the remainder is accounted for in the pink paints sampled.

The yellow paint appears to represent the most significant risk of the paints sampled, however the orange and green surfaces also demonstrated lead content much greater than 5.0 mg/cm². Though no other colors containing greater than 5.0 mg/cm² were identified, many did contain lead in excess of 1.0 mg/cm² and should be managed accordingly. Since lead-based paint was found at both the kindergartens and homes tested this could possibly be a significant exposure source.

6.1.6 Blood-Lead Screening

Sample results indicate the children attending Kindergarten #162 have the highest levels of blood-lead and have a mean concentration that exceeds both the U.S. [25] and Russian guideline [26]. Schools 141 and 109 have average blood-lead levels approaching the Russian guidelines with the percent of students exceeding guidelines either approaching or exceeding 30 percent. The results of the blood testing do not provide enough data to indicate the source of lead is in the kindergartens or if it comes from other sources including the homes of these children.

6.2 Conclusions by Facility

- **6.2.1 Building 18.** Blood-lead testing is the only data collected during this survey. Results indicate a low incident of elevated blood-lead levels
- 6.2.2 Building. 109. Surface testing indicates that most of the lead found on-site is on the toys or the playground equipment, however some lead-based paint has been applied to shelving and baseboards. Soil data indicates very limited lead content in the sandboxes and no lead contamination elsewhere on-site. Lead was not detected in the water sample collected at this kindergarten. Air sampling done at this kindergarten indicates high levels of respirable particulates are in the air, however samples were not collected to specifically identify airborne lead at this location. Dust samples collected inside the kindergarten did not contain lead. Blood testing indicates some children have elevated blood-lead levels. Results suggest the source of the lead is the painted toys and playground equipment, however the source of lead could not be conclusively identified.
- **6.2.3 Building 113**. Of the 94 surfaces tested, only the orange doorframe and yellow rocking horse exceeded the guideline for lead-based paint. Testing of the soils indicated many areas that contain lead. All soil samples collected adjacent to the building contained lead, while a majority of the samples collected near the fence and road also contained lead. Nearly one third of the samples collected in the sandboxes tested positive for lead while one half of the samples collected from other areas of the playground tested positive for lead. Air and water samples collected at the kindergarten did not contain lead, while only one dust sample contained lead. Only one of fourteen dust samples contained lead. No blood sampling was done.

- **6.2.4 Building 132.** Surface testing shows that lead-based paint has been used on many pieces of playground equipment and toys as well the baseboards within the kindergarten. All soil samples collected adjacent to the building contained lead, while a majority of the samples collected near the fence and road also contained lead. Nearly one half of the samples collected in the sandboxes tested positive for lead. Air and water samples collected at the kindergarten did not contain lead, however one air sample indicates that respirable particulates exceed air guidelines. Blood sampling indicates that a limited number of children have elevated blood-lead levels. Results suggest the source of the lead is the painted toys and playground equipment, however the source of lead could not be conclusively identified.
- **6.2.5 Building 138**. Of the 96 surfaces tested, only the orange baseboard, pink handrail, blue playground equipment, green bench, and yellow toy blocks exceeded the guideline for lead-based paint. Approximately one half of the soil samples collected adjacent to the building, the fence, and the road contained lead. Only two of the 17 samples collected in the sandboxes tested positive for lead. Air and water samples collected at the kindergarten did not contain lead, however both air samples collected to evaluate respirable particulates indicate the guidelines are exceeded. No blood sampling was done.
- 6.2.6 Building 141. Surface testing shows that lead-based paint has been used on many pieces of playground equipment and toys as well some interior surfaces within the kindergarten. Less than one third of all soil samples collected from adjacent to the building, in the sandboxes, and other playground areas contained lead. Air and water samples collected at the kindergarten did not contain lead, however one air sample indicates that respirable particulates exceed air guidelines. Only one of nine dust samples contained lead. Approximately one third of children tested have elevated blood-lead levels. Results suggest the source of the lead is the painted toys and playground equipment, however the source of lead could not be conclusively identified.
- 6.2.7 Building 162. Surface testing shows that lead-based paint has been used on many pieces of playground equipment and toys as well a few interior surfaces within the kindergarten. Two thirds of the soil samples collected from near the road or fence contained lead, while one third of the playground area samples contained lead. Only one sample out of twenty collected in the sandboxes contained lead. Air and water samples collected at the kindergarten did not contain lead and sampling results indicates that respirable particulate do not exceed air guidelines. Dust samples collected inside the kindergarten did not contain lead. Results of blood-lead testing indicate a high number of children have elevated blood-lead levels. Results suggest the source of the lead is the painted toys and playground equipment, however the source of lead could not be conclusively identified.
- **6.2.8 Building 169**. Blood-lead testing is the only data collected during this survey. Results indicate a low incident of elevated blood-lead levels

6.3 General Conclusions

• Inconsistent sampling of all media at each facility makes detailed comparisons difficult. For example, some facilities did not have blood data collected, some didn't have air, and some didn't

have water. However, there was enough data collected from each media and facility to draw general conclusions.

- Water results suggest that the drinking water is not a route for lead exposure.
- Air results suggest inhalation is not a significant route for lead exposure. The same can not be concluded for airborne particulate matter.
- Results indicate that the greater the number of lead-based paint containing surfaces, the greater the incident of high blood-lead levels. Results from most facilities in this study support this conclusion, however, some variance is identified and is likely the result of inconsistent sample numbers per location and random error.
- It is clear, based on the blood results that children are being exposed, but a single source is not readily identifiable. The homes and other epidemiological parameters will need additional attention in order to pinpoint the lead sources that are contributing to the elevated blood lead levels. One area that does warrant immediate attention is the need to control the use of lead-containing paint where children can contact the painted surface. Although the lead containing yellow paint found at many of the kindergartens cannot be directly linked to the elevated blood lead levels, it certainly cannot be ruled out as a contributing source and is one that can be controlled.

7.0 RECOMMENDATIONS

- Develop regulations and enforcement polices to restrict the use of paint with significant levels of lead.
- Implement a systematic follow-up program with the questionnaire at Appendix G to guide the investigation.
- Continue ambient air sample collection for TSP and Minivol-PM-10 to better determine ambient concentrations of both respirable particles and airborne lead. Other sampling locations, such as high traffic intersections, may need to be monitored to determine the effect of automobile exhausts. Consider collecting the samples at ground level where not limited by power supply and security restrictions.
- Establish "health fairs" where blood lead level checks (and perhaps blood pressure, cholesterol, etc.) would be provided as a service to the public.
- Ensure the capillary blood screening results are followed up with venous blood sampling and standard laboratory analysis to confirm the screening results.
- Conduct additional surface sampling to better characterize the extent of lead-based paint use and the link to high blood lead levels. Specifically, more homes including those of children whose blood lead levels are not high should be sampled to establish a baseline for blood lead comparisons.
- Perform dust sampling in areas other than the kindergartens. The dust from floors and windowsills in the homes should be examined for lead content as well.
- Establish a community awareness program informing parents of significant sources of lead (e.g., yellow paint) and the need to limit children's contact with such sources and the need to stress hand washing and cleaning up after playing outside.
- Investigate ways to distinguish non-lead containing paint from lead containing paint such as a reference or stock number and educate schools and parents on ways to detect lead-containing paint and to avoid its use.
- Ensure that follow-up actions do not create additional problems. For example, if lead-containing paint is to be removed, ensure that the removal process does not release fine dust particles spreading the lead. If an administrative solution is going to be to used (e.g., the lead-containing paint is going to be left in place or covered over) then ensure a routine inspection process is created to routine inspect lead-containing surfaces to make sure they are intact and undamaged.

• Consider removing soil from sandboxes that had detectable levels of lead where the box was painted with lead-containing paint. Ensure that only clean sand is placed back in the box and the lead-containing paint is not exposed.

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Vladivostok Ecology Project: Soil and Bulk Paint Results

12 12 14 14 14 14 14 14 14 14 14 14 14 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	ading: XL#	Reading: Assigned XL# I.D. #	Equipment #	Physical Location	Niton Laboratory Results Results mg/kg Method SW	ory SW	ory SW	Comments
40 44 44 44 44 44 44 44 44 44 44 44 44 4					(ppm) 846-7420 mg/kg		846-1311 (mg/L)	
44 44 44 44 44 44 44 44 44 44 44 11 11 1	S 66A	2001	Niton, 700; U9152509LY	Near Building	<48			Dirt. Verv Fine
4411212121	S 66A	2002	Niton, 700; U9152509LY	Near Building	<42	<50	8	Black Dirt, Lab Split
3321 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	40 799 8	2003	Niton 700: 1191525091 Y	Near Building	67+/-20		<u> </u>	Taken
3321 12 27 27 27 27 27 27 27 27 27 27 27 27 27			_! _	Near Building	65+/-33		0 6	Black Dirt
3321 12 2121	10 V99 S	2005	Niton, 700; U9152509LY	Near Building	<49		S	Sand
3327 12 8	S	2006	Niton, 700; U9152509LY	Near Building	<37		8	Black Dirt
3327 12 8	S		Niton, 700, U9152509LY	Near Building	<45		B	Black Dirt
3 3 2 1 1 2 8	S			Near Building	<40		S	Sand
3 3 3 5 7 7 7 8	S		1	Near Building	<41	<50	Ω	Dirt, Lab Split Taken
3321	- T		- 1	Playground	<36		S	Sand
3327	- 1			Playground	<34		S	Sandy Clay
3 3 2 1				Playground	<43		S	Sand
	- 1		- 1	Playground	<43		Ω	Dirt
	- 1			Playground	<39		Q	Dirt
				Playground	<42		Q	Dirt, Very Fine
				Playground	<40		α	Dirt
!	38 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2017	Niton, 700; U9152509LY	Playground	35+/-21	<50	0 1	Dirt, Very Fine; Lab Split
							-	laken
45				Playground	44+/-28			Dirt, Very Fine
141 15 V	2667	2019	Niton, 700; U9152509LY	Playground	<49	58.1	<0.3 D	<0.3 Dirt, Very Fine; Lab Split
141 7 V			Niton, 700; U9152509LY	Grassy Area	<33		B	Black Dirt
	- 1			Grassy Area	59+/-23		8	Black Dirt
	- 1			Grassy Area	<42		O	Coarse Sand
		2023		Grassy Area	<45		S	Sand
				Grassy Area	<42		S	Sand
	S			Grassy Area	<50	<20	Q	Dirt, Lab Split Taken
38	S			Grassy Area	42+/-27		B	Black Dirt
32	S		90,	Grassy Area	<42		Ω	Dirt
31	S		- 1	Playground	<38		D	Dirt
141 61V	V99 S	2029	Niton, 700; U9152509LY	Playground	<44	<50	Q	Dirt, Lab Split Taken

Vladivostok Ecology Project: Soil and Bulk Paint Results

y Comments W	Black Dirt	Dirt. Fine	Sand	Dirt	Sand, Lab Split Taken	Dirt	Black Dirt, Very Fine; Lab Split Taken	Repeat Test for Sample	Sand	Dirt	Coarse Sand	Sand, Fine	Sand	Sand	Sand	Sand	Sand	Sand	3 Sand; Lab Split Taken		Sand	Sand	Sand	Sand	Sand						
Results Wethod SW 846-1311 (mg/L)	,				0		2																		<0.3						
Niton Laboratory Results Results mg/kg Method SW (ppm) 846-7420 mg/kg					<50		207																		57.5						
<u>«</u>	52+/-27	<39	<39	<40	<36	48+/-26	162+/-28	99+/-25	<40	<43	<43	55+/-29	68+/-26	<38		70+/-28	<39	42+/-24	<37	<38	57+/-25	<40	54+/-26	87+/-31	<38	<36	75+/-26	<39	<40	<40	53+/-26
Physical Location	Playground	Playground	Plavaround	Grassy Area	Grassy Area	Grassy Area	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox												
Equipment #	Niton, 700; U9152509LY	Niton, 700; U9152509LY	Niton, 700; U9152509LY		Niton, 700; U9152509LY		Niton, 700; U9152509LY	700;	Niton, 700; U9152509LY				Niton, 700; U9152509LY						Niton, 700; U9152509LY												
Niton Team Reading: Assigned XL# I.D. #	2030			2033			2036.1	2036.2	2037	2038	2039 N	2040 N	2041 N																		2059 N
Niton Reading: XL#	46 V99 S	S 66A	S 66A				42 V99 S	48 V99 S	17 V99 S	41 V99 S						V99 S	V99 S	V99 S	V99 S	V99 S	V99 S	S 66A					\neg			V99 S	52 V99 S
Bldg #	141	141	141	141	141	141	141	141	141	141	141	141	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132
Sample #	30	31	32	33	34	35	36	36B	37	38	39	40	_	2	က	4	2	9	7	∞	O	10	11	12	13	14	15	16	17	18	19

Vladivostok Ecology Project: Soil and Bulk Paint Results

Sample #	Bldg		Nitor	Niton Team	Equipment #	Physical	Niton Laboratory		Laboratory Comments
	# .	č	ading XL⁴	Reading: Assigned XL# I.D. #		Location	Results Results mg/kg Method SW (ppm) 846-7420 mg/kg	SW 0	SW 1
	132	65	65 V99 S	2060	Niton, 700; U9152509LY	Sandbox	<37		Sand
21	132	67	67 V99 S	2061	Niton, 700; U9152509LY	Near Building	106+/-31		Sand
22	132	22	25 V99 S		Niton, 700; U9152509LY	Near Building	199+/-33		Sand
22B	132	99	S 66A 99	2062.2	Niton, 700; U9152509LY	Near Building	210+/-36		Repeat Test for Sample 22; Sand
23	132	54	V99 S	2063	Niton, 700; U9152509LY	Near Building	74+/-27		Sand
24	132	59	8 66A	2064		Near Building	118+/-29	123	Sand; Lab Split Taken
25	132	20	50 V99 S	2065		Near Building	83+/-25		Sand
26	132	82	S 66/			Near Fence	<43		Sandy/Clay
27	132	72	72 V99 S	2067	Niton, 700; U9152509LY	Near Road	63+/-25		Black Dirt
28	132	23	53 V99 S	2068	- 1	Near Road	<43		Sand
29	132	49	49 V99 S			Near Fence	47+/-25		Sand
30	132	68	88 V99 S			Near Fence	48+/-31		Sand
_	138	173	173 V99 S	2071	Niton, 700; U9152509LY	Sandbox	<38		Sand
2	138	186	186 V99 S	2072	Niton, 700; U9152509LY	Sandbox	<43		Sand
3	138	187	V99 S	2073	Niton, 700; U9152509LY	Sandbox	<38		Sand
4	138	188	N99 S	2074		Sandbox	<38		Sand
5	138	171	S 66A	2075	Niton, 700; U9152509LY	Sandbox	<39		Sand, Fine
9	138	183	S 66A	2076	Niton, 700; U9152509LY	Near Building	<39		Dirt, Very Fine
7	138	174	V99 S	2077	Niton, 700; U9152509LY	Near Building	<35		Black Dirt
8	138	177	S 66A	2078	Niton, 700; U9152509LY	Near Building	50+/-28		Dirt
6	138	169	V99 S	2079	Niton, 700; U9152509LY	Near Building	113+/-23	160	Black Dirt, Lab Split Taken
10	138	176	176 V99 S	2080	Niton, 700; U9152509LY	Near Building	<33		Black Dirt
11	138		S 66A	2081	Niton, 700; U9152509LY	Sandbox	No Sample		No Sample Taken
12	138		7/00/2	2082	Niton 700-1191525091 Y	Sandbox	No		No Cample Taken
71	000		0			Salidbux	Sample		No Sample Taken
13	138	175	866A	2083	Niton, 700; U9152509LY	Sandbox	42+/-24		Sand
14	138	181	S 66/			Sandbox	<37		Dirt
15	138		V99 S	2085	Niton, 700; U9152509LY	Sandbox	No Sample		No Sample Taken
16	138	182	182 V99 S	2086	Niton, 700; U9152509LY	Sandbox	20+/-27		Dirt

Vladivostok Ecology Project: Soil and Bulk Paint Results

	T	T	Т	1	T	Т	Τ	\top	T	Т	\top		Т	T	Τ		T-		_	Т	Τ	Τ-	т-	Т				Т	1	· T	_	
atory Comments ts od SW 311	Dirt Lab Split Taken		Sand	Sand	Due S.	Sand	Coarse Sand	Coarse Sand	Sand	Dirt	Sond	Cald	Dirt Very Fine	Dirt	Dirt		Dirt		Pebbles	Sand/Pebbles	Sand/Pebbles	Dirt/Pebbles	Sand/Pebbles	<0.3 Dirt/Pebbles; Lab Split	Taken	Dirt		Dirt	Sand/Pebbles	Sand	Dirt/Pebbles	Sand/Pebbles
Laboratory Results Method SW 846-1311 (ma/L)																																
Niton Laboratory Results Results mg/kg Method SW (ppm) 846-7420	<50																							<50								
Niton Results mg/kg (ppm)	<39	<38	<37	<38	<40	<34	<39	<35	<42	<35	46+/-30	2	84+/-28	<45	<40		71+/-30		<45	<40	<39	<43	<42	194+/-31		<45		118+/-31	53+/-30	<46	41+/-27	<42
Physical Location	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Near Back	Near Front	Gate	Near Fence	Near Fence	Outside	Sandbox	Outside	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Outside	Sandbox	Outside	Sandbox	Near Fence	Near Fence	Sandbox	Sandbox	Sandbox
0.	Niton, 700; U9152509LY	Niton, 700; U9152509LY		Niton, 700; U9152509LY	Niton, 700; U9152509LY	Niton, 700; U9152509LY				Niton, 700; U9152509LY	Niton, 700; U9152509LY		Niton, 700; U9152509LY	Niton, 700, U9152509LY	Niton, 700; U9152509LY		Niton, 700; U9152509LY			Niton, 700; U9152509LY				Niton, 700; U9152509LY		Niton, 700; U9152509LY			Niton, 700; U9152509LY	Niton, 700; U9152509LY		Niton, 700; U9152509LY
				2090 N						2096 N	2097 N				2100 N		2101 N							2107 Ni		2108						2113 NI
ead N						1				163 V99 S 2	180 V99 S 2		V99 S	- 1	210 V99 S 2		204 V99 S 2		866A	V99 S	V99 S	8 66A	S 66A	203 V99 S 2	000	7 S 660 607	000	V99 S	V99 S	V99 S	V99 S	201 V99 S 121
				- 1						138	138 1			_	113 2		113 2							113 2		2	⅃.		\perp			113 20
Sample #	17	18	19	20	21	22	23	24	25	56	27		28	29	_		7		20	4	5	9		×o		D		2 7		12	13	14

Vladivostok Ecology Project: Soil and Bulk Paint Results

Comple #	0142		Miton	Niton Toom		D.L.	A114			,
	n #		ading:	Reading: Assigned	# Nipilidinh	Location	Results Results	esults Results	Laboratory Results	Comments
			XL#	XL# I.D. #			mg/kg n (ppm) 8	sw 0	Method SW 846-1311 (mg/L)	
15	113		213 V99 S	2114	Niton, 700; U9152509LY	Sandbox	45+/-27			Coarse Sand
16	113		214 V99 S	2115	Niton, 700; U9152509LY	Sandbox	45+/-27			Dirt/Pebbles
17	113		- 1		Niton, 700; U9152509LY	Near Fence	<40			Dirt
18	113		206 V99 S	2117	Niton, 700; U9152509LY	Sandbox	<42			Dirt/Pebbles
19	113		192 V99 S	2118	Niton, 700; U9152509LY	Sandbox	<41	<50		Dirt/Pebbles, Lab Split
00	113	, , ,	2007	2110		J. Carlo	4			Taken
21	113	211	V 00/		Niton, 700, US 152509LT	Sandbox	CE+/ 20			Dirt/Pebbles
22	113		5 667		Niton 700: 119152509E1	Sandbox	02-1-50			Sarid/Pebbles Dirt/Debbles
23	113	215	799.5			Near Building	65+/20			Dilyreppies
24	113	193	V99 S			Near Building	110+/-30			
25	113	191	S 66A			Near Building	73+/-28			Dirt/Moode
26	113	197	S		Niton, 700; U9152509LY	Near Building	65+/-29			Dirt
	162	260	260 V99 S			Sandbox	<41			Dirt/Pebbles
2	162	251			Niton, 700; U9152509LY	Sandbox	<41			Dirt/Pebbles
3	162	245			Niton, 700; U9152509LY	Sandbox	<40			Dirt/Pebbles
4	162	240			Niton, 700; U9152509LY	Sandbox	<38			Dirt/Pebbles
5	162	246	S			Sandbox	<45			Dirt/Pebbles
9	162	243	S			Sandbox	<38			Dirt/Pebbles
7	162	252			Niton, 700; U9152509LY	Sandbox	<40	·		Dirt/Pebbles
8	162					Sandbox	44+/-27			Dirt/Pebbles
6	162					Sandbox	<40			Dirt/Pebbles
10	162	262				Sandbox	<41			Dirt/Pebbles
11	162	244	- 1		Niton, 700; U9152509LY	Sandbox	<43			Dirt/Pebbles
12	162	248	- 1		Niton, 700; U9152509LY	Sandbox	<44			Dirt/Pebbles
13	162	263	- 1		Niton, 700; U9152509LY	Sandbox	<40			Dirt/Pebbles
14	162	247	- 1			Sandbox	<41			Dirt/Pebbles
15	162	239	i			Sandbox	<40			Dirt/Pebbles
16	162	241	- 1			Sandbox	<42]	Dirt/Pebbles
17	162	264	- 1	Ì		Sandbox	<40			Dirt/Pebbles
18	162	236	- 1			Sandbox	<42			Dirt/Pebbles
19	162	256				Sandbox	<41			Dirt/Pebbles
20	162	242	V99 S	2145	Niton, 700; U9152509LY	Sandbox	<42			Dirt

Vladivostok Ecology Project: Soil and Bulk Paint Results

Comments					Dirt/Pebbles		Dirt/Pebbles	eeds	Dirt	Dirt		Dirt	Dirt	Dirt		Sand; Lab Split Taken									Dirt	Lab Split Taken								
		Diri	Diri	Dir	Dirt/P	Dirt	Dirt/P	Dirt/Weeds	Black	Black Dirt	Dir	Black Dirt	Black Dirt	Black Dirt	Sand	Sand;	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Black Dirt	Sand;	Sand							
Laboratory		,																																
Niton Laboratory	mg/kg Method SW (ppm) 846-7420 mg/kg												72.2			<20										<50								
Niton	œ	<39	50+/-28	<41	<45	<43	<42	75+/-29	49+/-30	<33	<43	243+/-27	72+/-26	86+/-24	<33	<32	<35	<33	42+/-23	<36	<34	<36	<33	<32	<36	<31	<28	<27	<30	<32	<28	<30	42+/-24	<27
Physical	Location	Grassy Area	Grassy Area	Grassy Area	Near Building	Near Building	Near Building	Near Fence	Near Fence	Near Fence	Near Fence	Near Garbage	Near Gate	Near Fence	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Near Fence	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox	Sandbox
Equipment #		Niton, 700; U9152509LY	Niton, 700; U9152509LY	Niton, 700; U9152509LY		Niton, 700; U9152509LY					Niton, 700; U9152509LY	Niton, 700; U9152509LY	Niton, 700; U9152509LY			Niton, 700; U9152509LY													Niton, 700; U9152509LY					
Niton Team	Reading: Assigned XL# I.D. #	2146	2147	2148						2154																							2174 N	
Niton	Reading: XL#	234 V99 S	258 V99 S	257 V99 S	S 66A	265 V99 S	S		n	ام	S 66A	V99 S	\neg			i	- 1			V99 S	V99 S	- 1			T			- 1	- 1	- 1		V99 S	V99 S	229 V99IS 12
Bldg	#	162	162	162																													_	109 2
Sample #		21	22	23	24	25	. 56	27	28	29	30	31	32	33		2	23	4	5	9	7	80	6	10	11	12	13	14	15	16	17	18	19	20

Vladivostok Ecology Project: Soil and Bulk Paint Results

Sample #	Blda		Niton	Niton Team	Equipment #	Physical	Niton	Niton Laboratory	Shoratory	Commonte
)# +		xL#	ned		Location	Results mg/kg (ppm)			
21	109	230	230 V99 S		Niton, 700; U9152509LY	Sandbox	<28			Sand
22	109	279	279 V99 S	2177		Near Building	<32			Sand
23	109	231	231 V99 S	2178	Niton, 700; U9152509LY	Near Building	<34			Sand
24	109		S 66A	2179		Near Building	<35			Black Dirt
109G1	109	389-	389- V99 C	2301	Niton, 700; U9152509LY	Playground	15616+/-			Paint chips from yellow
10000	00,		0		- 1	Yellow Giraffe	128			giraffe
109G2	109		7 88 C	2300	Niton, 700; U9152509LY	Playground Yellow Giraffe	25344+/- 171	49800		Paint chips from yellow giraffe
Kirov 6-65	6	267	S 66A	2180	Niton, 700; U9152509LY	Play Area Near Building	44.9+/-27			Dirt
Kirov 19/2-52	19/2	268	268 V99 S	2181	Niton, 700; U9152509LY	Play Area	<40			Dirt
Voen City 34	34	269 V99	V99 S	2182	Niton, 700; U9152509LY	Play Area	<39			Sand/Pebbles
Mahnitohorsraja 16-73	16	272	S 66A	2183.1	Niton, 700; U9152509LY	Play Area Near Building	378+/-35			Dirt
Mahnitohorsraja 16-73	16		S 66A	2183.2	Niton, 700; U9152509LY	Play Area Near Building	396+/-34			Dirt
Pr. 100 yr old Vladivostok 147- 52	147	271	S 66A	2184	Niton, 700; U9152509LY	Play Area Near Building	<44			Dirt
Kirov 21/1-46	21/1	273		2185	Niton, 700; U9152509LY	Play Area Near Building	<38			Black Dirt
Kirov 40-29	40	274	274 V99 S	2186	Niton, 700; U9152509LY	Play Area Near Building	<36			Black Dirt
Volkov 1a-53	19	275	275 V99 S	2187	Niton, 700; U9152509LY	Play Area Near Building	<40			Black Dirt
Volkov 3-85	3	276	276 V99 S	2188	Niton, 700; U9152509LY	Play Area Near Building	<40			Black Dirt
Karboyshev 26- 118	26	293	S 66A	2189	Niton, 700; U9152509LY	Play Area Near Building	<36			Sand
Ulyanovskaya 10	9	294				Play Area Near Building	149+/-27			Dirt
Postoyshev 5-22	2	295	295 V99 S	2191	Niton, 700; U9152509LY	Play Area	34+/-23			Dirt

Vladivostok Ecology Project: Soil and Bulk Paint Results

Sample #	Bldg		Nitor	Niton Team	Equipment #	Physical	Niton	Niton Laboratory Laboratory Comments	Laboratory	Comments	
	#		eading	Reading: Assigned		Location	Results	Results Results	Results		
			Ž X	#.D.#			mg/kg (ppm)	mg/kg Method SW Method SW (ppm) 846-7420 846-1311	Method SW 846-1311		
									(mg/L)		
						Near Building					П
Postoyshev 43-	43		296 V99 S	2192	Niton, 700; U9152509LY	Play Area	<34			Sand	T
10						Near Building					
P. Lumumpoy	44	297	866A	2193	Niton, 700; U9152509LY	Play Area	<33			Dirt	T
44-28						Near Building					
P. Lumumpoy	55/1	298	298 V99 S	2194	Niton, 700; U9152509LY	Play Area	<35			Sand	Т
53/1-20						Near Building					
Dobrovolskaya	23		436 V99 S	2195	Niton, 700; U9152509LY	Play Area	<42	623	<0.3	<0.3 Black Dirt	Т
23-134						Near Building					
Dobrovolskaya	15		438 V99 S 2196	2196	Niton, 700; U9152509LY	Play Area	76+/-26			Dirt	Т
15-123						Near Building					
Volkov 9-29	6		441 V99 S 2197		Niton, 700; U9152509LY	Play Area	<37			Black Dirt	T-
						Near Building					
Sakhalinskaya	26	440	440 V99 S	2198	Niton, 700; U9152509LY	Play Area	<38			Black Dirt	Т-
56-942						Near Building					
Dobrovolskaya	33	439	439 V99 S	2199	Niton, 700; U9152509LY	Play Area	86+/-24			Dirt	T
39-8						Near Building					
Dobrovolskaya	7	437	437 V99 S	2200	Niton, 700; U9152509LY	Play Area	63+/-27			Dirt	
11-323						Near Building					
P. Lumumpoy	34	548	548 V99 S 2201		Niton, 700; U9152509LY	Play Area	<39			Black Dirt	_
34-14		_	<u> </u>			Near Building					

Vladivostok Ecology Project: Water Sample Results

NOTES	If no chemist is noted, then it was one of the Russians.	<2ug/L is recorded as ND (none detected)	10 ug/L is the WHO action level			No Sample	No Sample	No Sample	No Sample								No Sample	No Sample	No Sample	No Sample															
CHEMIST	OLGA	OLGA	OLGA	OLGA	OLGA					OLGA	OLGA	OLGA	OLGA	OLGA	OLGA	OLGA					OLGA														
LOCATION	Artem water reservuar 1	Artem water reservuar 2	Artem water reservuar 3	BOGATINSKOE W.R.	SEDANKA W.R.					Artem water reservuar 1	Artem water reservuar 2	Artem water reservuar 3	BOGATINSKOE W.R.	BOGATINSKOE W.R.	SEDANKA W.R.	SEDANKA W.R.					SCOOL 162	SCOOL 113													
RESULTS UNITS	ND ng/L	ND ug/L	ND ng/L	ND ng/L	ND ag/L	ng/L	ng/L	ng/L	ng/L	ND ug/L	ND ng/L	ND lug/L	ND ng/L	ND ng/L	ND ng/L	ND ng/L	ng/L	ng/L	T/Bn	ng/L	ND ng/L	ND ng/L	ND ug/L	ND ng/L	ND ng/L	ND ng/L	ND ug/L	ND ng/L	ND lug/L	ND ug/L	ND ng/L				
LOCAL # DATE	1 01.09.99	2 01.09.99	3 01.09.99	4 01.09.99	5 01.09.99	9	7	8	6	10 02.09 .99	11 02.09.99	12 02.09.99	13 02.09.99	14 02.09.99	15 02.09.99	16 02.09.99	17	18	19	20	21 02.09.99	22 02.09.99	23 02.09.99	24 02.09.99	25 02.09.99	26 02.09.99	27 02.09.99	28 02.09.99	29 02.09.99	30 02.09.99	31 02.09.99	32 02.09.99	33 02.09.99	34 02.09.99	35 02.09.99
TEAM ID #	V99W1001	V99W1002	V99W1003	V99W1004	V99W1005	V99W1006	V99W1007	V99W1008	V99W1009	V99W1010	V99W1011	V99W1012	V99W1013	V99W1014	V99W1015	V99W1016	V99W1017	V99W1018	V99W1019	V99W1020	V99W1021	V99W1022	V99W1023	V99W1024	V99W1025	V99W1026	V99W1027	V99W1028	V99W1029	V99W1030	V99W1031	V99W1032	V99W1033	V99W1034	V99W1035

Vladivostok Ecology Project: Water Sample Results

					No Sample	No Sample	elames oN		elameS oN							No Sample	No Samole	elameS oN	No Sample																	
NOTES																																				
CHEMIST	OLGA	OLGA	OLGA	OLGA				MARIYA		OLGA	OLGA	OLGA	OLGA	MARIYA	MARIYA					MARIYA	MARIYA	SVETLANA	MARIYA	MARIYA	MARIYA	MARIYA	OLGA	OLGA								
LOCATION	SCOOL 113	SCOOL 109	SCOOL 109	SCOOL 109				SCOOL 132		SCOOL 138	SCOOL 138	SCOOL 138	SCOOL 138	SCOOL 132	SCOOL 132					SCOOL 132	SCOOL 141	KIROVA 6-65	KIROVA 21/1-46	MAGNITOGORSKAYA 16-73	MILLITARY BASE 34	SCOOL 113	SCOOL 113									
RESULTS UNITS	ND lug/L	ND ng/L	ND ng/L	ND ng/L	ng/L	ng/L	ng/L	ND ug/L	ng/L	ND lug/L	ND ug/L	ND ug/L	ND lug/L	ND lag/L	ND ug/L	ng/L	ng/L	ng/L	ng/L	ND ug/L	ND ug/L	ND ng/L	ND ng/L	ND ng/L	ND ug/L	ND ug/L	ND ng/L	ND ug/L	ND ng/L	ND ug/L	ND ng/L					
LOCAL # DATE	30 02.09.99	37 02.09.99	38 02.09.99	39 02.09.99	40	41	42	43 03.09.99	44	45 02.09.99	46 02.09.99	47 02.09.99	48 02.09.99	49 03.09.99	50 03.09.99	51	52	53	54	55 03.09.99	56 03.09.99	57 03.09.99	58 03.09.99	59 03.09.99	60 03 09 36	61 03.09.99	62 03.09.99	63 03.09.99	64 03.09.99	65 03.09.99	66 03 06 36	62 03.09.99	68 03.09.99	69 03:09:99	70 02.09.99	71 02.09.99
	V89VV1030	V99W1037	V99W1038	V99W1039	V99W1040	V99W1041	V99W1042	V99W1043	V99W1044	V99W1045	V99W1046	V99W1047	V99W1048	V99W1049	V99W1050	V99W1051	V99W1052	V99W1053	V99W1054	V99W1055	V99W1056	V99W1057	V99W1058	V99W1059	V99W1060	V99W1061	V99W1062	V99W1063	V99W1064	V99W1065	V99W1066	V99W1067	V99W1068	V99W1069	V99W1070	V99W1071

Vladivostok Ecology Project: Water Sample Results

S																																				
NOTES																																				
CHEMIST	OLGA	MARIYA	MARIYA	SVETLANA	SVETLANA		SVETLANA	SVETLANA	SVETLANA	SVETLANA	SVETLANA	SVETLANA	SVETLANA	SVETLANA	SVETLANA	SVETLANA	MARIYA	MARIYA	MARIYA	MARIYA	MARIYA	MARIYA	MARIYA	MARIYA	MARIYA	SVETLANA	SVETLANA	SVETLANA	SVETLANA	SVETLANA	SVETLANA	SVETLANA	SVETLANA	SVETLANA	SVETLANA	SVETLANA
LOCATION	SCOOL 113	100YEARS 147-52	KIROVA 19/2-52	MILLITARY BASE 34	MILLITARY BASE 35	MAGNITOGORSKAYA 16-73	100YEARS 147-52	KIROVA 6-65	KIROVA 21/1-46	VOLKOVA 3-85	KIROVA 40-29	VOLKOVA 1A-53	VOLKOVA 3-85	KARBYSHEVA 26-118	LUMUMBY 53/1-20	KIROVA 40-29	LUMUMBY 4-28	KARBYSHEVA 26-72	VOLKOVA 1A-53	POSTYSHEVA 5-22	SCOOL 109	SCOOL 109	SCOOL 109	POSTYSHEVA 43-10	VOLKOVA 9-29	SACHALINSKAYA 56-942	VOLKOVA 9-29	DOBROVOLSKOGO 39-8	POSTYSHEVA 43-10	POSTYSHEVA 5-22	DOBROVOLSKOGO 39-8	KARBYSHEVA 26-72	LUMUMBY 53/1-20	DOBROVOLSKOGO 11-32	ULIYANOVSKAYA 10-105	LUMUMBY 44-28
RESULTS UNITS	ND ug/L	ND ug/L	ND ng/L	ND ug/L	ND ng/L	ND ng/L	ND ug/L	ND lug/L	ND ng/L	ND ng/L	ND lug/L	T/gu QN	ND lng/L	ND ld/L	J/Bn/QN	ND lug/L	ND lug/L	ND lug/L	ND lug/L	ND lug/L	ND ug/L	ND ng/L	ND ng/L	ND ng/L	ND ng/L	ND ng/L	ND ng/L	ND ng/L	ND ug/L	ND ng/L	ND ng/L	ND ng/L	ND ng/L	ND ug/L	2 ug/L	ND ug/L
LOCAL # DATE	72 02.09.99	73 03.09.99	74 03.09.99	75 03.09.99	76 03.09.99	77 03.09.99	78 03.09.99	79 03.09.99	80 03.09.99	81 06.09.99	82 06.09.99	83 06.09.99	84 06.09.99	85 06.09.99	86 06.09.99	87 06.09.99	88 06.09.99	89 06.09.99	66.60.90 06	91 06.09.99	92 06.09.99	93 06.09.99	94 06.09.99	66.60.90 26	66'00'90 96	66.60.90 26	98 06.09.99	66.60.90 66	100 06.09.99	101 06.09.99	102 06.09.99	103 06.09.99	104 06.09.99	105 06.09.99	106 06.09.99	107 06.09.99
	V99W1072	V99W1073	V99W1074	V99W1075	V99W1076	V99W1077	V99W1078	V99W1079	V99W1080	V99W1081	V99W1082	V99W1083	V99W1084	V99W1085	V99W1086	V99W1087	V99W1088	V99W1089	V99W1090	V99W1091	V99W1092	V99W1093	V99W1094	V99W1095	V99W1096	V99W1097	V99W1098	V99W1099	V99W1100	V99W1101	V99W1102	V99W1103	V99W1104	V99W1105	V99W1106	V99W1107

Vladivostok Ecology Project: Water Sample Results

Ċ	TEAM ID # ILOCAL # IDATE	DECLII TO INITO	NOTATION		CIII
בסטיני יי טייני		INCOULTS DIVITED		CHEMICA	NOTES
108 06.09.99	66.	ND ug/L	DOBROVOLSKOGO 15-123 SVETLANA	SVETLANA	
109 06.09.99	66.	J/bn/QN	KARBYSHEVA 26-118	SVETLANA	
110 06.09.99	66.	ND ug/L	134	SVETLANA	
111 06.09.99	66.	ND lug/L	DOBROVOLSKOGO 23-134 SVETLANA	SVETLANA	
112 06.09.99	9.66	ND ug/L	DOBROVOLSKOGO 11-323 SVETLANA	SVETLANA	
113 06.09.99	9.66	7/6n QN	DOBROVOLSKOGO 15-123 SVETLANA	SVETLANA	

Vladivostok Ecology Project: Air Sample Results

Local I.D. #	Bldg #	Sample Date	Niton Reading XL#	Team Assigned	Equipment#	Niton	Lab	oratory	Analysis R	Laboratory Analysis Results (μg/m³)	m³)
						Result (µg)					
							Cadmium	Lead	Beryllium	Chromium	Beryllium Chromium Manganese
XRF FIELD SCREENING	NING										
TSP Samples											
VL-20	KG-162	4-Sep-99	455-458 V99A		Niton, 700; U9152509LY	<27	<0.00065	0.039	0.0004	<0.016	0.075
VL-21	KG-113	4-Sep-99		4002	Niton, 700; U9152509LY	<21	0.0007	0.053	0.0002	<0.0070	0.05
VL-22	KG-141	4-Sep-99	451-454 V99 A	4003	Niton, 700; U9152509LY	<27	0.0005	0.057	<0.00016	<0.0077	0.048
VL-23	KG-138	4-Sep-99		4004	Niton, 700; U9152509LY	<29	0.0004	0.054	<0.00015	<0.0072	0.054
VL-24	Control	3-Sep-99		4005	Niton, 700; U9152509LY	<22	<0.69 ug	<18ug	<0.36 ug	<17 ug	<35 uq
VL-25	Control	3-Sep-99		4006	Niton, 700; U9152509LY	<28	on 69.0>	<18ug	<0.36 ug	<17 ug	<35 ug
VL-44	KG-162	3-Sep-99		4007	Niton, 700; U9152509LY	<29	0.0004	0.038	0.0002	<0.0079	0.049
VL-45	KG-113	3-Sep-99			Niton, 700; U9152509LY	<28	0.0004	0.049	<0.00016	<0.0075	0.055
VL-46	KG-113	3-Sep-99	_		Niton, 700; U9152509LY	<29	0.0008	0.057	0.0008	0.011	0.14
VL-47	KG-141	3-Sep-99			Niton, 700; U9152509LY	<30	0.0007	0.076	0.0007	0.0089	0.12
VL-48	KG-141	2-Sep-99	491-495 V99A		Niton, 700; U9152509LY	<30	9000.0	0.054	0.0002	<0.0065	0.057
VL-49	KG-132	2-Sep-99	_		Niton, 700; U9152509LY	<30	0.0005	0.082	0.0002	<0.0077	0.063
VL-50	KG-138				Niton, 700; U9152509LY	<30	9000.0	90.0	0.0002	<0.0074	0.069
VL-51	KG-113		799		700;	<28	0.0006	0.081	<0.00015	6900.0>	0.063
VL-52	KG-138		66/		700;	<28	0.0021	0.18	0.0003	0.0091	0.17
VL-53	KG-113	7			, 100 100	<30	0.0011	0.14	0.0003	<0.0087	0.1
VL-54	KG-141	1	_		700;	<26	0.0007	0.12	0.0002	<0.0077	0.073
VL-55	KG-132	+				<27	0.0005	0.15	0.0003	0.011	0.087
VL-56	KG-113		_			<28	0.0009	0.14	<0.00026	<0.012	0.092
VL-57	KG-141	\dashv	_		Niton, 700; U9152509LY	<30	0.0005	0.1	0.0002	<0.0081	0.062
VL-58	KG-132	1	V99 A		Niton, 700; U9152509LY	<27	0.0004	0.091	0.0002	<0.0074	0.061
VL-59	KG-138	+	V99 A		Niton, 700; U9152509LY	<29	0.0005	0.097	<0.00023	<0.011	0.054
VL-60	KG-141		531-534 V99 A		Niton, 700; U9152509LY	<28	0.011	0.11	0.0002	0.0072	0.11
VL-30	Control	5-Sep-99	V99 A	4024			<0.69 ug	<18ug	<0.36 ug	<17 ug	<35 ug
VL-31	Control	5-Sep-99	V99 A	4025			<0.69 ug	<18ug	<0.36 ug	<18 ug	<35 ug
SKC Samples											
Zatsepipena-1		010999/0800		4501			<0.086	<0.5	<0.017	<0.21	<0.14
Nutrechina-2		010999/0800	- 1	4502			<0.12	<0.72	<0.024	<0.31	<0.20
Nutrechina-1		010999/0000	V99P	4503			<0.086	<0.5	<0.017	<0.21	<0.14

Vladivostok Ecology Project: Air Sample Results

Smirnova-2	Sample Date Niton Reading Team	Equipment# Niton		Laboratory Analysis Results (μg/m³)	Results (µg/	m³)
va-2 020999/0100 va-1 010999/1700 va-1 010999/1700 ipena-3 020999/0000 hina-3 010999/1600 hina-3 010999/1600 hanenikova-1 010999/100 hanenikova-2 010999/1400 hanenikova-3 020999/0300 nanenikova-3 010999/1900 nanenikova-2 010999/1900 va-3 010999/1900 kova-1 050999/1800 kova-2 040999/1800 chya-3 040999/1600 i-1 050999/1600 i-2 060999/0000 enko-1 040999/1600 enko-2 040999/0000 i-1 040999/0000 i-2 040999/0000 enko-3 040999/0000 enko-3 040999/0000 aya-1 050999/1600 aya-2 050999/1600 ofo0999/1600	XL# Assigned I.D. #	Res			:	
vva-2 020999/0100 vva-1 010999/1700 ipena-3 020999/0000 hina-3 010999/1600 ipena-2 010999/1600 hanenikova-1 010999/1600 nevskaya-3 010999/1400 nanenikova-3 010999/1900 nanenikova-2 010999/1900 nanenikova-2 010999/1900 nanenikova-3 010999/1800 nanenikova-1 040999/0600 nanenikova-2 040999/1800 nanenikova-3 040999/1800 na-3 040999/1800 envoa-2 040999/0800 na-3 040999/0800 na-3 040999/0800 na-3 040999/0800 na-4 040999/0800 na-1 040999/0520 na-2 040999/0520 na-3 040999/0520 na-3 040999/0520 na-2 040999/0520 na-3 040999/0520 na-3 040999/0520 na-3 040999/0520			Cadmium	Lead Beryllium	Beryllium Chromium Manganese	Manganese
hina-3 hina-3 020999/0000 hina-3 010999/1600 hina-3 010999/1600 hanenikova-1 hanenikova-2 010999/1400 hanenikova-3 010999/1400 hanenikova-3 010999/1400 hanenikova-3 010999/1400 hanenikova-3 010999/1900 hanenikova-2 010999/1900 hanenikova-2 010999/1900 hanenikova-2 040999/1800 hanenikova-2 040999/1800 han-3 040999/1800	999/0100 V99 P 4504		<0.086	<0.5 <0.017	<0.21	<0.14
ipena-3 020999/0000 hina-3 010999/1600 hina-3 010999/1600 hanenikova-1 010999/1400 hanenikova-2 010999/1300 hanenikova-2 010999/1900 hanenikova-2 010999/1900 hanenikova-2 010999/1900 hanenikova-2 010999/1900 hanenikova-2 010999/1900 hanenikova-2 010999/1000 hanenikova-2 040999/1800 hanenikova-1 050999/1800 hanenikova-2 040999/1800 hanenikova-1 050999/1800 hanenikova-1 050999/1800 hanenikova-1 050999/1600 hanenikova-1 040999/1800 hanenikova-1 040999/1320 hanenikova-1 050999/1600 haya-2 050999/1600	999/1700 V99P 4505			<0.51 <0.017	<0.22	<0.14
hina-3 010999/1600 Ipena-2 010999/1600 Ipena-2 010999/1600 Ievskaya-3 010999/1400 Ievskaya-2 010999/1400 Ievskaya-2 010999/1300 Ievskaya-1 040999/0600 Ievskaya-1 040999/1800 Ievskaya-1 050999/1800 Ievskaya-1 050999/1800 Ievskaya-1 050999/1600 Ievskaya-1 040999/1320 Ievskaya-1 040999/1320 Ievskaya-1 040999/1320 Ievskaya-1 050999/1600 Ievskaya-2 050999/1600 Ievskaya-3 050999/1600 Ievskaya-2 050999/1600 Ievska	999/0000 V99 P 4506		>0.086	<0.5 <0.017		<0.14
ipena-2 010999/1600	999/1600 V99 P 4507		<0.087			<0.14
hanenikova-1 010999/1100 levskaya-3 010999/1400 levskaya-2 010999/1300 levskaya-2 010999/1300 levskaya-1 040999/0600 levskaya-1 040999/1800 levskaya-1 050999/1800 levs-2 040999/1800 levs-2 040999/1800 levs-3 040999/1320 levskaya-1 050999/0800 levs-3 040999/1320 levskaya-1 050999/0800 levs-3 040999/1320 levsya-1 050999/1600 levsya-2 050999/1600 levskaya-1 050999/1600 levskaya-2 050999/1600 levskaya-2 050999/1600 levskaya-2 050999/1600 levskaya-3 050999/1600	V99 P		V		<0.23	<0.15
hanenikova-3 010999/1400 hanenikova-3 020999/0300 hanenikova-2 010999/1200 hanenikova-2 010999/1900 hanenikova-2 010999/1900 hanenikova-2 010999/1000 har-2 040999/1800 har-3 060999/1600 har-3 060999/1600 har-1 050999/1600 har-1 040999/0800 har-1 040999/0800 har-1 040999/1600 har-1 040999/1600 har-1 040999/1600 har-1 040999/1320 har-1 040999/1320 har-2 040999/1320 har-2 040999/1320 har-2 040999/1320 har-3 050999/1600 har-3 050999/1600 har-3 050999/1600	V99 P		<0.086	<0.5 <0.017	<0.21	<0.14
hanenikova-3 02099/0300 levskaya-2 010999/2200 hanenikova-2 010999/1900 hanenikova-2 010999/1900 levskaya-1 040999/0600 levskaya-1 040999/1000 levskaya-1 050999/1000 levskaya-1 050999/1600 levskaya-1 050999/1600 levskaya-1 050999/1600 levskaya-1 050999/1600 levskaya-1 050999/1600 levskaya-1 040999/0600 levsya-2 040999/1320 levsya-2 050999/1600	V99 P		<0.086		<0.21	<0.14
levskaya-2 010999/2200	999/0300 V99 P 4511				<0.21	<0.14
va-3 va-3 010999/1900 va-3 010999/0900 levskaya-1 040999/0600 va-2 va-3 040999/1000 va-3 050999/1000 va-3 050999/1000 va-2 va-2 040999/0000 va-2 va-2 040999/0000 va-2 040999/1320 va-2 040999/1320 va-2 040999/1320 va-2 040999/0600 va-2 040999/1320 va-3 050999/1600 va-2 va-3 va-3 va-2 va-3 va-4 va-4 va-4 va-4 va-4 va-4 va-7 va-7 va-8 va-8	999/2200 V99P 4512		<0.086		<0.21	<0.14
revskaya-1 040999/0900 levskaya-1 040999/0600 levskaya-1 040999/0600 kova-1 050999/1800 la-2 040999/1300 la-3 060999/0000 la-1 050999/0800 la-2 040999/0000 la-2 040999/1320 la-2 040999/1320 la-3 050999/0600 aya-2 050999/0600 aya-2 050999/0600 aya-2 050999/0600 aya-2 050999/0600 aya-2 050999/1600	999/1900 V99P 4513		<0.086	<0.5 <0.017	<0.21	<0.14
levskaya-1 040999/0600 10	V99 P			<0.56 <0.019	<0.24	<0.15
kova-1 050999/1000 kova-2 050999/1800 la-2 040999/1800 la-3 040999/1800 la-3 050999/0800 la-3 050999/0800 la-3 060999/0800 enko-2 060999/0800 enko-2 040999/1600 la-2 040999/120 la-3 040999/1320 aya-1 050999/1600 aya-2 050999/1600	V99 P		<0.087	<0.5 <0.017	<0.22	<0.14
kova-1 050999/1000 la-2 040999/1300 la-2 040999/1300 la-3 040999/1300 l-1 050999/0800 l-2 050999/0800 l-2 050999/0800 l-2 050999/0800 l-2 050999/0800 l-2 040999/0800 l-2 040999/0800 l-2 040999/0800 l-2 040999/0800 l-2 040999/0800 l-2 040999/1320 l-2 040999/1320 l-3 050999/0800 l-3 050999/0800 l-3 050999/0800 l-3 050999/0800 l-3 050999/0800 l-3 050999/1600 l-3 050999/1600	V99P 4516		<0.12 ug <0.72ug	2ug <0.024 ug	<0.31ua	<0.20 ug
kova-1 050999/1000 kova-2 050999/1000 la-2 040999/1300 la-3 040999/1300 l-1 050999/0800 l-2 050999/0800 l-3 060999/0600 l-3 060999/0600 l-3 040999/0600 l-3 040999/120 la-1 030999/120 la-2 040999/1320 la-3 050999/0000 laya-1 050999/0800 laya-2 050999/1600 laya-2 050999/1600 laya-3 050999/1600 laya-3 050999/1600			<0.12 ug <0.72ug		<0.31ug	<0.20 ug
kova-2 050999/1800 a-2 040999/1300 a-3 040999/2100 -1 050999/0800 -2 050999/0800 -3 060999/0800 enko-1 040999/0800 enko-2 040999/1600 a-2 040999/1320 aya-1 050999/1600 aya-2 050999/1600 aya-2 050999/1600	V99 P				<0.21	<0.14
ia-2 040999/1300 ia-3 040999/1300 i-1 050999/0800 i-2 050999/0800 i-2 050999/0800 i-3 060999/0800 i-3 040999/0000 i-4 030999/1600 i-5 040999/0000 i-6 040999/0520 i-7 040999/1320 i-7 040999/1320 i-7 040999/1320 i-7 050999/0800	V99 P		<0.17 <(<0.42	<0.27
1-1 040999/2100 1-2 050999/0800 1-2 050999/1600 1-3 060999/0000 enko-1 040999/0800 enko-2 030999/1600 enko-3 040999/0000 1a-1 030999/120 1a-2 040999/1320 aya-1 050999/0800 aya-2 050999/1600 aya-3 050999/1600			> 980.0>	<0.5 <0.017	<0.21	<0.14
1-1 050999/0800 1-2 050999/0800 1-3 060999/0600 enko-1 040999/0800 enko-2 030999/1600 enko-3 040999/0000 ta-1 030999/2120 ta-2 040999/1320 aya-1 050999/0800 aya-2 050999/0800	d 66A		> 980.0>	<0.5 <0.017	<0.21	<0.14
enko-1 050999/1600 enko-2 060999/0000 enko-2 030999/1600 enko-3 040999/0000 ta-1 030999/2120 ta-2 040999/1320 aya-1 050999/0000 aya-2 050999/1600	V99 P		> 650.0>	<0.4 <0.013	<0.17	<0.11
enko-1 040999/0000 enko-2 030999/0000 enko-3 040999/0000 aa-1 030999/120 a-2 040999/0520 aya-1 050999/0800 aya-2 050999/1800 aya-2 050999/1600	V99 P		<0.086	<0.5 <0.017	<0.21	<0.14
enko-1 040999/0800 enko-2 030999/1600 enko-3 040999/0000 Ja-1 030999/2120 Ja-2 040999/0520 Ja-3 040999/1320 aya-1 050999/0800 aya-2 050999/1600	V99 P		<8.4	<49 <1.6	<21	<13
enko-2 030999/1600 enko-3 040999/0000 ua-1 030999/2120 ua-2 040999/0520 aya-1 050999/0000 aya-2 050999/0000 aya-2 050999/1600	V99 P		> 980.0>	<0.5 <0.017	<0.21	<0.14
enko-3 040999/0000 1a-1 030999/2120 1a-2 040999/0520 1a-3 040999/1320 aya-1 050999/0000 aya-2 050999/1600 aya-3 050999/1600	V99 P			<0.5 <0.017	<0.21	<0.14
1a-1 030999/2120 1a-2 040999/0520 1a-3 040999/1320 aya-1 050999/0000 aya-2 050999/1600 aya-3 050999/1600	V99 P			<0.5 <0.017	<0.22	<0.14
1a-2 040999/0520 1a-3 040999/1320 aya-1 050999/0000 aya-2 050999/1600 aya-3 050999/1600	V99 P		> 980.0>	<0.5 <0.017	<0.21	<0.14
aya-1 040999/1320 aya-1 050999/0000 aya-2 050999/1600 aya-3 050999/1600	V99 P		> 980.0>	<0.5 <0.017	<0.21	<0.14
aya-1 050999/0000 aya-2 050999/0800 aya-3 050999/1600	V99 P		> 980.0>	<0.5 <0.017	<0.21	<0.14
aya-2 050999/0800 aya-3 050999/1600	V99 P		> 980.0>	<0.5 <0.017	<0.21	<0.14
aya-3 050999/1600	V99 P		> 980.0>	<0.5 <0.017	<0.21	<0.14
	V99 P		> 980.0>	<0.5 <0.017	<0.21	<0.14
	\neg		<0.12 ug <0.72ug <0.024 ug	ug <0.024 ug	<0.31ug	<0.20 ug
	V99 P 4535		<0.12 ug <0.72ug <0.024 ug	ug <0.024 ug	<0.31ug	<0.20 ug

Vladivostok Ecology Project: Air Sample Results

Local I.D. #	Bldg #	Sample Date	Niton Reading XL#	Team Assigned	Equipment#	Niton	Lab	oratory	Analysis F	Laboratory Analysis Results (μg/m³)	,ш ³)
				I.D.#		Result (µg)					
						II.	Cadmium	Lead	Beryllium	Lead Beryllium Chromium Manganese	Manganese
Minvol Samples						Lead	Total Ma	ass Resi	 Total Mass Result (μg/m³)		
VR51	KG-109	1-Sep-99	V99 A	4305	Niton, 700; U9152509LY	<31 <31		29			
VR54	KG-162	1-Sep-99	V99 A	4312	Niton, 700; U9152509LY	<31		10			
VR66	KG-162	4-Sep-99	V99 A	4315	Niton, 700; U9152509LY	<21		27			
VR52	KG-132	1-Sep-99	V99 A	4301				40			
VR55	KG-132	2-Sep-99	V99 A	4302				59			
VR53	KG-138	31-Aug-99	V99 A	4303				52			
VR57	KG-138	1-Sep-99	V99 A	4304				78			
VR58	KG-132	2-Sep-99	V99 A	4306				42			
VR63	KG-141	3-Sep-99	V99	4307				92			
VR65	KG-141	4-Sep-99	V99 A	4308				43			
VR60	KG-109	2-Sep-99	V99 A	4309				51			
VR62	KG-109	3-Sep-99	V99 A	4310				62			
VR67	KG-109	4-Sep-99	V 66A	4311	Invalid Sample, Incorrect			27			
					Volume		=	(Invalid)			
VR56	KG-162	2-Sep-99	V99 A	4312				29			
VR64	KG-162	3-Sep-99	V99 A	4314				42			
VR61	Control	2-Sep-99	V99[A	4316			Z	No Data			

Vladivostok Ecology Project: Swipe Dust Sample Results

Laboratory Results ug/100 cm2	<10	410	V 10	<10	<10	<10	<10	<10	<10	115	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Niton Laboratory Result Results µg/100 cm2 µg/100 cm2	<34	<35	<33	<30	<32	<34	<32	<32	<30	57.5+/-24	<33	<32	<32	<34	<32	<32	<32	<32	<29	<32	<32	<31	<31	<32
Surface Type: ws=window sill f=floor ww=window well n/a=other surface	WS.	2		f	n/a	WS	ws	n/a	ww	ws	ww	ww	ww			ws		WS		WS			WS	
Physical Location	Medical Office Window Sill			r, Entryway	Seating	m Window Sill, Green	room Window Sill, White	Playroom Table Top	/ell, White	⊫ا	2nd Floor Playroom Window Well	2nd Floor Playroom, Pink Window Well Rail	2nd Floor, Bedroom Window Well	2nd Floor Playroom Floor, Entryway	2-3 yr old room, floor	2-3 yr old room, window sill	3-4 yr old room, floor	3-4 yr old room, window sill	3-4 yr old room, floor	low sill	5-6 yr old room, floor	2-3 yr old room, floor	low sill	5-6 yr old room, floor
# Equipment#	Niton, 700: U9152509LY	Niton, 700: U9152509LY	Niton, 700; U9152509LY	Niton, 700; U9152509LY		Niton, 700; U9152509LY	Niton, 700; U9152509LY	Niton, 700; U9152509LY	700; U9152509LY	Niton, 700; U9152509LY	700; U9152509LY	Niton, 700; U9152509LY	Niton, 700; U9152509LY	Niton, 700; U9152509LY	Niton, 700; U9152509LY	ton, 700; U9152509LY		ton, 700; U9152509LY	ton, 700; U9152509LY	ton, 700; U9152509LY	Niton, 700; U9152509LY	700; U9152509LY	ton, 700; U9152509LY	Niton, 700; U9152509LY (
Team Assigned I.D. # Equipment#	V99 D 3001			V99 D 3004	V99 D 3005	V99 D 3006	V99 D 3007	V99 D 3008			V99 D 3011	V99 D 3012	V99 D 3013	V99 D 3014	V99 D 3015						\Box		T	V99 D 3024
Bldg # Niton Te Reading XL #	113 114-117		t		113 118-121 V(113 142-145 V9	113 134-137 V9	113 130-133 VS					53	113 95-98 V _C								+	\dashv	109 340-343 V9
Local Bld I.D. #	-	2	3	4	2	9	7	8				12	13	41	-	. 2				9			2	

Vladivostok Ecology Project: Swipe Dust Sample Results

Niton Laboratory Result Results μg/100 cm2 μg/100 cm2	<30 <10	<33 <10	<29 <10	<31 <10	<31 <10	<30 <10	<30 16	<32 <10	<33 10	<30 <10		<31 <10	<29 <10	<30 12	<33 <10	-22 42	<28 <10	<31 <10	<32 <10	<31 <10
ö		V		V	V		V		V	V	V	V	V	ľ	v	61.8+/-22	V		ľ	V
Surface Type: ws=window sill f=floor ww=window well n/a=other surface	ws	f	ws	- f	ws	4	ws	4	ws	n/a	n/a		WS	f	ws	n/a	f	ws	4-	n/a
Physical Location	5-6 yr old room, window sill	4-5 yr old room, floor	4-5 yr old room, window sill	4-5 yr old room downstairs, floor	4-5 yr old room downstairs, window sill	5-6 yr old room upstairs, floor	5-6 yr old room upstairs, window sill	4-5 yr old room upstairs, floor baseboard	4-5 yr old room upstairs, window sill	4-5 yr old room upstairs, blank	outside yellow arch	2-3 yr old room, floor	2-3 yr old room, window sill	2-3 yr old room, floor	2-3 yr old room, window sill	2-3 yr old room, rocking horse	5 yr old room upstairs, floor	6 yr old room upstairs, window	sports room, floor	sports room,blank
Equipment#	Niton, 700; U9152509LY	Niton, 700; U9152509LY	Niton, 700; U9152509LY	Niton, 700; U9152509LY	Niton, 700; U9152509LY	Niton, 700; U9152509LY	Niton, 700; U9152509LY	Niton, 700; U9152509LY	Niton, 700; U9152509LY	Niton, 700; U9152509LY	Niton, 700; U9152509LY	Niton, 700; U9152509LY		e,	ton,	Niton, 700; U9152509LY	Niton, 700; U9152509LY	Niton, 700; U9152509LY	Niton, 700; U9152509LY	Niton, 700; U9152509LY
eam Assigned I.D. # E	3025	3026			3029	3030	3031	3032	3033	3034	3035	3036	3037	•			3041	3042	3043	3044
- ean	Q 66A	Q 66A	Q 66A	Q66A	V99 D	Q 66A	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Q 66A	Q 66A	Q 66A	O 66A	0 66V	Q 66A	Q 66A	Q 66A	Q 66A	0 66A	Q 66A	Q 66A	V99 D
g # Niton Reading XL #	109 344-347	109 348-351	109 352-355	109 356-359	109 360-363	109 364-367	109 368-371	109 372-375	109 376-379	109 381-384	109 385-388	141 397-400	141 401-404	141 406-409	141 410-413	141 414-417	141 418-421	141 422-425	141 427-430	141 431-434
					œ		10	11	12	13 '	14	-	. 2				9			6

Vladivostok Ecology Project: Surface Testing Results

Number	Site	X	XI # Room	Structure	Feature	Substrate Color	Color	Phi 4		Donth		Dato Note
								(mg/cm²)	ng/cm²)	Index		
V99C5001	School 113	89	2-3 yr play room	Wall		Plaster	yellow	0.24	90'0	1.1		8/30/99 Any lead present is on the surface laver
V99C5002	School 113	ő	69 2-3 yr play room	Door		Wood	white	90.0	0.15	5.4		8/30/99 Any lead present is 4 to 5 layers deen
V99C5003	School 113	7	70 2-3 yr play room		cabinet	Wood	white	0.13	0.1	2.8	8/30/99	
V99C5004	School 113	71	2-3 yr play room	Door	jamb	Wood	orange	1.19	0.18	1.8		8/30/99 Any lead present is 2
V99C5005	School 113	72	2-3 yr play room		tile		orange	0.81	0.13	1.4		8/30/99 Any lead present is on the
V99C5006	School 113	73	2-3 yr play room	Door	Casing	Mood	orange	0.88	0.12	1.5	1	8/30/99 Any lead present is on the
V99C5007	School 113	7/	74 2-3 yr play room	Window	Casing	Wood	white	0.14	0.18	3.9		8/30/99 Any lead present is 4 to 5
V99C5008	School 113	7.5	75 2-3 yr play room	Window		Mood	white	90.0	0.15	1.7	8/30/99	8/30/99 Any lead present is 2
V99C5009	School 113	76	76 2-3 yr play room		toy bear		orange	0	90.0	-	8/30/99	8/30/99 No lead present
V99C5010	School 113	77	77 2-3 yr play room	- 3	toy xylophone	Metal	various	0.79	90.0	-	8/30/99	8/30/99 Any lead present is on the surface laver
V99C5011	School 113	78	2-3 yr play room		llop	Wood	various	0.01	0.03	2.2		8/30/99 Any lead present is 2
V99C5012	School 113	79	2-3 yr play room		toy, lady	Metal	red/blac	0.16	0.03	-	8/30/99	8/30/99/Any lead present is on the
V99C5013	School 113	80	2-3 yr play room		rocking horse	Wood	yellow	2.02	0.21	1.1	8/30/99	8/30/99 Any lead present is on the surface laver
V99C5014	School 113	81	2-3 yr play room		cabinet	Wood	various	0.09	0.06	1.2	8/30/99	8/30/99 Any lead present is on the surface laver
V99C5015	School 113	82	82 2-3 yr play room		rocking horse	Mood	various	0.87	0.1	1.2	8/30/99	8/30/99 Any lead present is on the surface laver
V99C5016	School 113	83	83 2-3 yr play room	<i>V)</i>	slide	Metal	tan	90.0	0.13	-	8/30/99	8/30/99 Any lead present is on the surface laver
V99C5017	School 113	84	84 6-7 yr play room)	chair	роом	peach	90.0	0.14	1.3	8/30/99	8/30/99 Any lead present is on the surface layer
	School 113	85		Wali		Plaster	yellow	0.27	0.09	1.3	8/30/99	8/30/99 Any lead present is on the surface layer
V99C5019	School 113	86	86 6-7 yr ylw play rm	Wall		Plaster	white	0.01	0.01	-	8/30/99	8/30/99 Any lead present is on the surface layer

Vladivostok Ecology Project: Surface Testing Results

Number	Site	XL#	XL # Room	Structure	Feature	Substrate Color	Color	PbL	+1	Depth	Date	Date Note
								(mg/cm ²) (mg/cm ²)	(mg/cm ²)	Index		
V99C5020	School 113	87	87 6-7 yr ylw play rm	Wall		Plaster	plue	0.24	0.15	2		8/30/99 Any lead present is 2
							green					layers deep
V99C5021	School 113	88	88 6-7 yr ylw play rm	Window	Casing	Mood	white	0.13	0.13	2.3		8/30/99 Any lead present is 2 to 3
000											1	layers deep
V99C5022	School 113	68 —	89 6-7 yr ylw play rm	Window	Casing	Mood	white	0.48	0.67	7.1		8/30/99 Any lead present is 4 to 5
		-										layers deep
V99C5023	School 113	06	90 6-7 yr ylw play rm		toy block	Mood	yellow	29.0	0.11	_	8/30/99	8/30/99 Any lead present is on the
	\neg											surface layer
V99C5024	- 1	91	91 6-7 yr ylw play rm		toy block	Wood	plue	0	0.02	1	8/30/99	8/30/99 No lead present
V99C5025	School 113	92	92 6-7 yr ylw play rm		toy block	Wood	green	0.25	0.08	1.2		8/30/99 Any lead present is on the
	\neg											surface layer
V99C5026	School 113	93	93 6-7 yr ylw play rm		toy block	Wood	red	0.12	0.04	-	8/30/99	8/30/99 Any lead present is on the
												surface layer
V99C5027	School 113	94	94 6-7 yr ylw play rm		mini piano	Wood	green	0.01	0.03	1.9		8/30/99 Any lead present is 2
												layers deep
V99C5028	School 113	95	95 6-7 yr ylw play rm		flute	Wood	green	0.03	0.01	_	8/30/99	
												surface layer
V99C5029	School 113	96	96 6-7 yr ylw play rm		flute	Wood	red/whit	0.05	20.0	2.1	8/30/99	8/30/99 Any lead present is 2
			\neg				Ф					layers deep
V99C5030	School 113	97	97 6-7 yr ylw play rm	Door	jamb	Wood	yellow	0.51	0.1	4.	8/30/99	8/30/99 Any lead present is on the
1												surface layer
V99C5031	School 113	86	98 6-7 yr pink play rm	Wall		Wood	pink	0.23	0.13	2.7	8/30/99	Any lead present is 2 to 3
	_										_	layers deep
V99C5032	School 113	66	99 6-7 yr pink play rm	Wali		Wood	pink	0.15	0.1	2		8/30/99 Any lead present is 2
												layers deep
V99C5033	School 113	100	100 6-7 yr pink play rm Wall	Wall		Wood	white	0.24	0.12	2.4	8/30/99	8/30/99 Any lead present is 2 to 3
												layers deep
V99C5034	School 113	101	101 6-7 yr pink play rm		door	Wood	white	0.25	0.15	2.8	8/30/99	8/30/99 Any lead present is 2 to 3
1000												layers deep
V99C5035	School 113	102	102 6-7 yr pink play rm		toy horse	Wood	plack	0.01	0.04	-	8/30/99	8/30/99 Any lead present is on the
					П							surface layer
V99C5036	School 113	103	103 6-7 yr pink play rm	Door	jamb, door	Wood	pink	0.38	0.14	2.3	8/30/99	8/30/99 Any lead present is 2 to 3
												layers deep
V99C5037	School 113	104	104 6-7 yr pink play rm			Wood	red	0	0.01	-	8/30/99	8/30/99 No lead present
V99C5038	School 113	105	105 6-7 yr pink play rm		toy desk	Mood	Lt blue	0.01	0.08	-	8/30/99	8/30/99 Any lead present is on the
												surface layer
V99C5039	School 113	106	106 6-7 yr pink play rm		toy desk	Wood	white	0.04	0.00	-	8/30/99	8/30/99 Any lead present is on the

Vladivostok Ecology Project: Surface Testing Results

			4 to 5			on the			on the		2 to 3		on the		on the		2		on the		2		on the		2 to 3	1	C 03 Z	2		4 to 5			on the	on the
Date Note	surface layer	8/30/99 No lead present	8/30/99 Any lead present is 4 to 5	layers deep	8/30/99 No lead present	8/30/99 Any lead present is on the	surface layer	8/30/99 No lead present	8/30/99 Any lead present is on the	surface layer	esent is	layers deep	8/30/99 Any lead present is on the	surface layer	8/30/99 Any lead present is on the	surface layer	8/30/99 Any lead present is	layers deep	8/30/99 Any lead present is on the	surface layer	8/30/99 Any lead present is	layers deep	8/30/99 Any lead present is on the	surface layer	esent is	Agy lood proceed in	orsoras Arify lead present is a	esent is	layers deep	8/30/99 Any lead present is 4 to 5	layers deep	8/30/99 No lead present	8/30/99 Any lead present is on the	8/30/99 Any lead present is on the
		66/02/8	•		8/30/66	66/02/8							8/30/99				8/30/99				8/30/99		8/30/99		8/30/66	00/06/0	66/06/0	8/30/99		8/30/99		8/30/99	8/30/99	8/30/99
Depth Index		l	10		1	1		1	1		3.6		_		<u>t</u>		1.7		1.2		1.9		- -		 1	0 0	0.7	1.8		3.8		1	1.1	-
<u>+</u> (ma/cm²)		0.01	0.26		0.01	0.01		0.01	0.07		0.19		0.02		0.09		0.1		0.13		0.08		0.02		0.13	0 42	2	0.07		0.05		0.01	0.12	90.0
PbL + (ma/cm²) (ma/cm²)		0	60.0		0	0.01		0	0.35		0.04		0.15		0.05		0.16		0.35		0.1		0.07		0.02	0.13	2	0.16		0.01		0	0.58	0.05
Color		plne	yellow		red	yellow		green	dark	green	white		green		white		peach		green		Lt blue		Lt blue		white	4 56 10	2000	brown		red		green	yellow	red
Substrate Color		Wood	Wood		Wood	Wood			Mood		Mood		Wood		Wood		Metal		Wood		Plaster		Plaster		Plaster	70/00		Wood		Wood			Wood	Wood
Feature		toy block	toy block		toy block	toy block		toy block	toy block		pox		pox		toy stove		rail		chair							amb door		amb, door		toy disk			toy block	toy block
Structure																-					Wall		Wall		Wall	Door	5	Door		_			_	
XL # Room		7 6-7 yr pink play rm	108 6-7 yr pink play rm		109 6-7 yr pink play rm	110 6-7 yr pink play rm		111 6-7 yr pink play rm	112 6-7 yr pink play rm		113 6-7 yr pink play rm		114 6-7 yr pink play rm		115 6-7 yr pink play rm		116 Stair		117 Hall	T	118 4-5 yr play room		119 4-5 yr play room		120 4-5 yr play room	121 4-5 yr play room		122 4-5 yr play room		125 4-5 yr play room		128 4-5 yr play room	129 4-5 yr play room	130 4-5 yr play room
×	\vdash	\dashv		4	_		-	_			7		114		115		116		117		118		119	30,	120	121	1	122		125		128	129	130
Site		School 113	School 113		School 113	School 113		School 113	School 113		School 113		School 113		School 113		School 113		School 113		School 113		School 113		School 113	School 113		School 113		School 113		School 113	School 113	School 113
Number		V99C5040	V99C5041	1	V99C5042	V99C5043		V99C5044	V99C5045		V99C5046		V99C5047		V99C5048		V99C5049		V99C5050		V99C5051		V99C5052		V99C5053	7/990.5054		V99C5055		V99C5056	\neg		V99C5058	V99C5059

Vladivostok Ecology Project: Surface Testing Results

Number	Site	XL#	XL # Room	Structure	Feature	Substrate Color	Color	+ lud	+	Denth	Date Note	Note
								(mg/cm²) (mg/cm²)	(mg/cm²)	Index		
V99C5060	School 113	131	4-5 yr play room		toy block	Wood	plne	0	0.1	7	8/30/99	8/30/99 No lead present
V99C5061	School 113	132	132 4-5 yr play room		stool	Wood	black/go Id	0.34	0.03	_	8/30/99	8/30/99 Any lead present is on the
V99C5062	School 113	133	133 4-5 yr play room		leg, stool	Wood	gold	90.0	0.04	1		8/30/99 Any lead present is on the
0000000	+	707			-							surface layer
V99C5063	School 113	134	134 4-5 yr play room		jamb, door	MooW	brown	0.5	0.1		8/30/99	Any lead present is on the surface layer
V99C5064	School 113	135	5-6 yr play room		toy block	Wood	green	0.13	0.06	1.1	-	8/30/99 Any lead present is on the
V99C5065	School 113	136	136 5-6 yr play room		toy block	Wood	red	0.05	0.18	10		8/30/99 Any lead present is 4 to 5
00010007	\neg	107										layers deep
V99C5066		137	137 5-6 yr play room		toy block	Wood	red	0	0.02	<u>-</u>	8/30/99	8/30/99 No lead present
V99C5067	School 113	138	138 5-6 yr play room	***	toy block	Mood	yellow	0.41	0.11	-		8/30/99 Any lead present is on the
V99C5068	School 113	139	139 5-6 yr play room		toy block	Wood	dark red	0.45	0.11	1	8/30/99	8/30/99 Any lead present is on the
				·			·					surface layer
V99C5069	School 113	140	140 5-6 yr play room		toy block	Wood	plue	0.04	0.19	3.6		8/30/99 Any lead present is 2 to 3
												layers deep
V99C5070	School 113	141	141 5-6 yr play room	Door	Casing	Wood	Lt blue	0.23	0.11	2.5		8/30/99 Any lead present is 2 to 3
V99C5071	School 113	117	142 5-6 vr play room		tov ortiot	othor	oi oiron	100	700	00		
200068		74.	o-o yi pilay i oolii		toy di tist		Various	0.0	40.0	3.2		6/30/99/Any lead present is 2 to 3
V99C5072	School 113	143	143 5-6 vr play room	Door	jamb, door	Wood	Ltblue	60.0	0.16	22		R/30/99 Any lead present is 2
			man family of a		5			20.0	2	7:-7		
V99C5073	School 113	144	144 5-6 yr play room	Door	jamb, door	Mood	dark	0.08	0.23	10	8/30/99	Any lead present is 4 to 5
* 10000		116					ania .					layers deep
V99C5074	SCN00113	140	145 5-6 yr play room		cabinet	Wood	Drown	0	0.01			8/30/99 No lead present
V99C5075	School 113	146	146 Exterior	Door	door	Mood	orange	0.94	0.21	7		8/30/99 Any lead present is 2
V99C5076	School 113	147	147 Exterior	Window	Casing	Wood	orange	0.83	0.24	2.5		8/30/99 Any lead present is 2 to 3
												layers deep
V99C5077	School 113	148	148 Exterior	Door		Mood	orange	0.03	0.05	1	8/30/99	Any lead present is on the surface laver
V99C5078	School 113	149	149 Exterior		climbing	Metal	red	0.05	60.0	2.2		8/30/99 Any lead present is 2
0203007	0.1.1.140	4.50	- 1		Dals			000		,		ayers deep
6/000664	School 113	061	Tou Exterior		climbing bars	Metal	gold	0.23	0.1	1.4		8/30/99 Any lead present is on the surface layer

Vladivostok Ecology Project: Surface Testing Results

Number	Site	# 	XL # Room	Structure	Feature	Substrate Color	Color	PbL +	PbL ± (mg/cm²)	Depth Index		Date Note
V99C5080	School 113	151	151 Exterior		climbing bars	Metal	pink	0.06	60.0			8/30/99 Any lead present is on the surface laver
V99C5081	School 113	152	152 Exterior		climbing bars	Metal	plue	0.03	0.21	2.5		8/30/99 Any lead present is 2 to 3 layers deep
V99C5082	School 113	153	153 Exterior		pench	Mood	yellow	0.57	0.13	1.2	1	8/30/99 Any lead present is on the surface laver
V99C5083	School 113	154	154 Exterior		pench	Wood	plue	0.28	0.31	8.1	8/30/99	8/30/99 Any lead present is 4 to 5
V99C5084	School 113	155	155 Exterior		pench	Wood	green	0.25	0.11	1.4		8/30/99 Any lead present is on the
V99C5085	School 113	156	156 Exterior		pench	Wood	red	0.35	0.28	4.9		8/30/99 Any lead present is 4 to 5 layers deen
V99C5086	School 113	157	157 Exterior		slide	Metal	red	0.22	0.21	4.5	8/30/99	
V99C5087	School 113	158	158 Exterior		slide	Metal	green	0.19	0.1	1.5		8/30/99 Any lead present is on the surface layer
V99C5088	School 113	159	159 Exterior		slide	Metal	plue	0.03	0.07	3.8		8/30/99 Any lead present is 4 to 5 layers deep
V99C5089	School 113	160	160 Exterior		fence	Metal	green	0.02	0.24	1.3	8/30/99	8/30/99 Any lead present is on the surface layer
V99C5090	School 113	161	161 Exterior		fence	Metal	green	0.02	0.04	-	8/30/99	8/30/99 Any lead present is on the
V99C5091	School 113	162	162 Exterior	Window	Casing	Metal	brown	0.04	0.07	1.2	8/30/99	8/30/99 Any lead present is on the surface layer
	School 113	163	163 Exterior		bench	Mood	yellow	0.77	0.16	4.1	8/30/99	Any lead present is on the surface layer
	School 113	164	164 Exterior		bench	Wood	green	0.29	0.13	1.6	8/30/99	8/30/99 Any lead present is on the surface layer
V99C5094 V99C5095	School 113 School 138	165	165 Exterior 166 Calibration		asphalt		white	0 62	0.07	0.0	8/30/99	8/30/99 No lead present
	7.00	107								- 1		surface layer
	School 138	791		wall		Plaster	Green	0.22	0.09	1.9	8/31/99	8/31/99 Any lead present is 2 layers deep
	School 138	168		Wall		Plaster	White	0.03	60.0	4.8	8/31/99	8/31/99 Any lead present is 4 to 5 layers deep
V99C5098	School 138	169	169 2-3 yr Play Room	Door	Door	Wood	White	0.15	60.0	2.2	8/31/99	8/31/99 Any lead present is 2 layers deep

Vladivostok Ecology Project: Surface Testing Results

Number	Site	XL #	XL # Room	Structure	Feature	Substrate Color	Color	Ph	+	Denth	Date Note	Note
	,								(mg/cm²)	Index		
V99C5099	School 138	170	170 2-3 yr Play Room	Door	Baseboard	Wood	Pink	0.24	0.09	1.4		8/31/99 Any lead present is on the
		!										surface layer
V99C5100	School 138	171	171 2-3 yr Play Room	Wall		Plaster	Pin X	0.20	0.10	2.0		8/31/99 Any lead present is 2
												layers deep
V99C5101	School 138	172	172 2-3 yr Play Room	Window	Casing	Mood	White	0.02	0.04	1.2		8/31/99 Any lead present is on the
											- 1	surface layer
V99C5102	School 138	172	2-3 yr Play Room	Window	Radiator	Metal	Pin X	0.02	0.04	1.2		8/31/99 Any lead present is on the
		į									- 1	surface layer
V99C5103	School 138	174	174 2-3 yr Play Room	Window	Radiator	Metal	Pink	0.09	0.00	1.3		8/31/99 Any lead present is on the
V99C5104	School 138	175	175 2-3 vr Play Room			Wood	Yellow	0.49	0.11	13		8/31/00 Any load procont is on the
		:	(b) (b)					2	- - - -	3		surface laver
V99C5105	School 138	176	176 2-3 yr Play Room		toy, block	Wood	Blue	0.08	0.21	2.2		8/31/99 Any lead present is 2
					П							layers deep
V99C5106	School 138	177	177 2-3 yr Play Room		toy, block	Wood	Green	0.78	0.11	1.1	8/31/99	8/31/99 Any lead present is on the
												surface layer
V99C5107	School 138	178	178 2-3 yr Play Room		toy, block	Wood	Red	0.42	90.0	1.0		8/31/99 Any lead present is on the
												surface layer
V99C5108	School 138	179	179 2-3 yr Play Room		rocking	Wood	Blue	0.05	0.03	1.0		8/31/99 Any lead present is on the
					horse						- 1	surface layer
V99C5109	School 138	180	180 4-5 yr Play Room	Wall		Plaster	Beige	0.31	0.11	2.2		8/31/99 Any lead present is 2
												layers deep
V99C5110	School 138	181	181 4-5 yr Play Room	Door	Door	Wood	White	0.02	90.0	1.7		8/31/99 Any lead present is on the
		_										
V99C5111	School 138	182	182 4-5 yr Play Room	Door	Jamb	Wood	Orange	0.61	0.16	2.5		8/31/99 Any lead present is 2 to 3
												layers deep
V99C5112	School 138	183	183 4-5 yr Play Room	Wall		Plaster	White	0.00	0.04	1.0	8/31/99	8/31/99 No lead present
V99C5113	School 138	184	184 4-5 yr Play Room	Wall	Chair	Wood	Green	0.18	0.07	1.2		8/31/99 Any lead present is on the
												surface layer
V99C5114	School 138	185	185 4-5 yr Play Room	Wall	Chair	Metal	Grey	0.02	0.02	1.0		8/31/99 Any lead present is on the
												surface layer
V99C5115	School 138	186	186 4-5 yr Play Room	Window	Casing	Mood	White	0.11	0.08	1.7	8/31/99	8/31/99 Any lead present is 2
												layers deep
V99C5116	School 138	187	4-5 yr Play Room	Window	Sash	Mood	White	0.10	0.10	1.7	8/31/99	8/31/99 Any lead present is 2
												layers deep
V99C5117	School 138	188	188 4-5 yr Play Room	Wall		Plaster	Beige	0.20	0.12	2.1		8/31/99 Any lead present is 2
												layers deep

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Number	Site	X	XL # Room	Structure	Feature	Substrate Color	Color	PbL	+	Depth		Date Note
		4						(mg/cm ²)	(mg/cm²) (mg/cm²)	Index		
V99C5118	School 138		189 4-5 yr Play Room	Wall		Plaster	White	0.01	0.04	4.0		8/31/99 Any lead present is 4 to 5
V99C5119	School 138		190 4-5 yr Play Room	Wall	Radiator	Wood	Pink	0.25	0.13	2.2		8/31/99 Any lead present is 2
V00CE120	School 139	404		110/01	1	10/01		9,0				
V 39C3 Z0	9011001130		4-5 yr Flay Koom	waii	baseboard	Mood	Ž Ž	0.18	0.10	1.7		8/31/99 Any lead present is 2 layers deep
V99C5121	School 138	192	2 5-6 yr Play Room	Wall		Plaster	Green	0.12	90.0	1.3	1	8/31/99 Any lead present is on the
V99C5122	School 138	-	103 5.6 vr Dlav Doom	110/1/1		Dissipar	14/15:4-	000	700	,	,	surface layer
V9903122	SCI 1001 130	+	10-0 yi rilay Rudili			Plaster	wnite	0.00	0.01	1.0	- 1	8/31/99 No lead present
V99C5123	SC0001 138	Ď	194 5-6 yr Play Koom		Casing	Mood	White	0.03	0.55	1.0		8/31/99 Any lead present is on the surface layer
V99C5124	School 138	<u>6</u>	195 5-6 yr Play Room	Door	Casing	Wood	White	0.10	0.11	1.9		8/31/99 Any lead present is 2
10000												layers deep
V99C5125	School 138	<u>ğ</u>	196 5-6 yr Play Room	Door	Baseboard	Mood	Orange	>>5.0	1.00	2.7		8/31/99 Any lead present is 2 to 3 lavers deep
V99C5126	School 138	197	5-6 yr Play Room	Door	Baseboard	Wood	Orange	>>5.0	1.00	2.9		8/31/99 Any lead present is 2 to 3
10000											- 1	layers deep
V99C512/	School 138	38	5-6 yr Play Room		toy, block	Mood	Red	0.15	0.09	1.5		8/31/99 Any lead present is on the
1/00/5129	Cohool 120	100			1. 1. 1.	14/		0,0	000		L	sullace layer
V 33C3 [20	001 1001100	36	199 3-0 yi Fiay Kudili		toy, block	0000	Yed	0.12	0.08	4.		8/31/99 Any lead present is on the surface laver
V99C5129	School 138	200	200 5-6 yr Play Room	•	toy, block	Wood	Yellow	1.68	0.17	1.7	8/31/99	8/31/99 Any lead present is on the
												surface layer
V99C5130	School 138	201	201 5-6 yr Play Room		toy, block	Wood	Blue	0.02	0.14	1.5		8/31/99 Any lead present is on the
V99C5131	School 138	202	202 5-6 yr Play Room		toy, block	Wood	Blue	90.0	0.31	2.7		8/31/99 Any lead present is 2 to 3
V99C5132	School 138	203	203 5-6 yr Play Room		toy, block	Mood	Green	0.07	0.04	1.0		8/31/99 Any lead present is on the
00074	1 400	3										surface layer
V99C5133	School 138	204	204 5-6 yr Play Room	Cabinet	Shelf	Mood	White	0.08	90.0	1.2	8/31/99	8/31/99 Any lead present is on the
V99C5134	School 138	205		lic/W			100	0	000	,	00, 70,0	surface layer
\top	School 130	200					Orner	0.00	0.06			8/31/99 No lead present
	001 100100	200	ZUO DIIIIII ROOIII		1000	Mood	White	0.05	0.0	-	8/31/99	8/31/99 Any lead present is on the
V99C5136	School 138	207	207 Dining Room	Door ,	Jamb	Wood	Orange	0.70	0.23	28	8/31/99	8/31/99 Any lead present is 2 to 3
\neg										i	-	layers deep
V99C5137	School 138	208	208 Dining Room	Wall		Wood	Green	0.09	0.07	1.4	8/31/99	8/31/99 Any lead present is on the

Vladivostok Ecology Project: Surface Testing Results

School 138 219 Dining Room Window Casing Wood White 0.09 0.10 School 138 210 Dining Room Window Sash Wood White 0.09 0.10 School 138 211 Dining Room Wall Plaster White 0.03 0.09 School 138 212 Dining Room Wall Plaster White 0.05 0.04 School 138 213 Dining Room Wall Plaster White 0.05 0.04 School 138 214 Dining Room Wall Plaster White 0.05 0.01 School 138 215 Sports Room Wall Plaster Pink 0.02 0.01 School 138 216 Sports Room Window Casing Wood Orange 0.07 0.05 School 138 227 Sports Room Window Wood Wood Orange 0.04 0.07 School 138 222 Sports Room toy, block Wood Green 0.04 0.07	Number	Site	XL#	XL # Room	Structure	Feature	Substrate Color	Color	PbL	+1	Depth	Date	Date Note
School 138 209 Dining Room Window Casing Wood White 0.09 0.10 School 138 210 Dining Room Wall Plaster Green 0.12 0.08 School 138 212 Dining Room Wall Plaster White 0.03 0.09 School 138 213 Dining Room Wall Plaster White 0.05 0.04 School 138 214 Dining Room Wall Plaster White 0.05 0.04 School 138 215 Sports Room Wall Plaster White 0.024 0.11 School 138 216 Sports Room Wall Baseboard Wood Orange 0.07 School 138 218 Sports Room Wall Baseboard Wood Orange 0.07 School 138 228 Sports Room Wall Exp. block Wood Orange 0.04 0.09 School 138 221 Sports Room toy, block Wood Orange 0.04 0.07 School 138									(mg/cm ⁻)	(mg/cm²)	Index		
School 138 209 Dining Room Window Casing Wood White 0.09 0.10 School 138 210 Dining Room Wall Plaster Green 0.12 0.07 School 138 212 Dining Room Wall Plaster White 0.03 0.09 School 138 212 Dining Room Wall Plaster White 0.05 0.04 School 138 214 Dining Room Wall Plaster White 0.05 0.01 School 138 215 Sports Room Wall Baseboard Wood Greey 0.07 0.05 School 138 216 Sports Room Wall Baseboard Wood Orange 0.07 0.05 School 138 217 Sports Room Window Casing Wood Orange 0.07 0.05 School 138 220 Sports Room Window Casing Wood Green 0.84 0.17 School 138 222 Sports Room toy, block Wood Green 0.25 0.07													surface layer
School 138 210 Dining Room Window Sash Wood White 0.12 0.08 School 138 211 Dining Room Wall Plaster Green 0.12 0.09 School 138 212 Dining Room Wall Chair Wood Grey 0.05 0.04 School 138 214 Dining Room Wall Plaster White 0.05 0.01 School 138 215 Sports Room Wall Plaster White 0.02 0.12 School 138 216 Sports Room Wall Baseboard Wood Orange 0.07 0.05 School 138 216 Sports Room Window Casing Wood White 0.07 0.07 School 138 216 Sports Room Window Casing Wood White 0.04 0.09 School 138 221 Sports Room toy, block Wood Blue 0.04 0.09 School 138 222 Sports Room toy, block Wood Orange 0.04 0.09	V99C5138	School 138	209	Dining Room	Window	Casing	Mood	White	0.00	0.10	2.0		8/31/99 Any lead present is 2 layers deen
School 138 211 Dining Room Wall Plaster Green 0.12 0.07 School 138 212 Dining Room Wall Chair Metal Blue 0.03 0.09 School 138 214 Dining Room Chair Wood Grey 0.08 0.01 School 138 215 Sports Room Wall Plaster Pink 0.24 0.11 School 138 215 Sports Room Wall Baseboard Wood Grey 0.05 0.07 School 138 216 Sports Room Window Casing Wood White 0.07 0.05 School 138 227 Sports Room Window Casing Wood Blue 0.04 0.09 School 138 222 Sports Room toy, block Wood Green 0.25 0.07 School 138 222 Sports Room toy, block Wood Green 0.25 0.07 School 138 222 Sports Room toy, block Wood Green 0.25 0.07	V99C5139	School 138	210	Dining Room	Window	Sash	Wood	White	0.12	0.08	1.6	8/31/99	
School 138 212 Dining Room Wall Plaster White 0.03 0.09 School 138 213 Dining Room Chair Metal Blue 0.05 0.04 School 138 214 Dining Room Wall Plaster Winde Grey 0.08 0.01 School 138 216 Sports Room Wall Baseboard Wood Orange 0.07 0.05 School 138 217 Sports Room Window Casing Wood White 0.07 0.05 School 138 220 Sports Room toy, block Mood Blue 0.04 0.07 School 138 222 Sports Room toy, block Wood Blue 0.04 0.07 School 138 222 Sports Room toy, block Wood Green 0.25 0.07 School 138 222 Sports Room toy, block Wood Green 0.03 0.10 School 138 222 Sports Room Stairs Rail-cap Wood Green 0.25 0.07	V99C5140	School 138	211	Dining Room	Wall		Plaster	Green	0.12	0.07	1.4		8/31/99 Any lead present is on the
School 138 212 Dining Room Chair Metal Blue 0.03 0.09 School 138 214 Dining Room Chair Wood Grey 0.08 0.03 School 138 215 Sports Room Wall Plaster Pink 0.24 0.11 School 138 216 Sports Room Wall Baseboard Wood Orange 0.07 0.05 School 138 216 Sports Room Window Casing Wood White 0.02 0.17 School 138 220 Sports Room toy, block Metal Yellow 0.04 0.07 School 138 222 Sports Room toy, block Wood Green 0.25 0.07 School 138 222 Sports Room toy, block Wood Green 0.25 0.07 School 138 222 Sports Room toy, block Wood Green 0.25 0.07 School 138 222 Sports Room toy, block Wood Green 0.03 0.10 School 138	VOOCE444	Cohoo 120	04.0	Oining Doom	10/01		į	10.00	0	000		- 1	surface layer
School 138 213 Dining Room Chair Metal Blue 0.05 0.04 School 138 214 Dining Room Wall Plaster Pink 0.24 0.11 School 138 215 Sports Room Wall Plaster White 0.02 0.12 School 138 216 Sports Room Window Casing Wood Orange 0.07 0.05 School 138 218 Sports Room Window Casing Wood White 0.08 0.07 School 138 220 Sports Room toy, block Wedal Green 0.04 0.09 School 138 222 Sports Room toy, block Wood Green 0.05 0.07 School 138 222 Sports Room toy, block Wood Green 0.05 0.07 School 138 224 Sports Room Stairs Rail-cap Wood Brown 0.03 0.10 School 138 225 34 yr Play Room Wall Plaster White 0.00 0.00	V89C5141	SC10001 138	717	Uining Koom	waii		Plaster	White	0.03	0.00	0.9		8/31/99 Any lead present is 4 to 5 layers deep
School 138 214 Dining Room Chair Wood Grey 0.08 0.03 School 138 215 Sports Room Wall Plaster Pink 0.24 0.11 School 138 216 Sports Room Wall Baseboard Wood Orange 0.07 0.05 School 138 218 Sports Room Window Casing Wood White 0.08 0.07 School 138 229 Sports Room toy, block Metal Green 0.04 0.09 School 138 222 Sports Room toy, block Wood Green 0.25 0.07 School 138 222 Sports Room toy, block Wood Green 0.25 0.07 School 138 222 Sports Room toy, block Wood Green 0.25 0.07 School 138 222 Sports Room toy, block Wood Green 0.25 0.07 School 138 222 Sports Room Wall Plaster Green 0.25 0.03 School 138	V99C5142	School 138	213	Dining Room		Chair	Metal	Blue	0.05	0.04	1.3	8/31/99	
School 138 215 Sports Room Wall Plaster Pink 0.24 0.11 School 138 216 Sports Room Wall Plaster White 0.02 0.12 School 138 217 Sports Room Window Casing Wood White 0.07 0.05 School 138 218 Sports Room Window Casing Wood White 0.04 0.09 School 138 220 Sports Room toy, block Metal Green 0.84 0.17 School 138 221 Sports Room toy, block Wood Blue 0.04 0.02 School 138 222 Sports Room toy, block Wood Green 0.25 0.07 School 138 222 Sports Room toy, block Wood Brown 0.03 0.10 School 138 225 Sports Room Stairs Rail-cap Wood Brown 0.03 0.13 School 138 225 3-4 yr Play Room Wall Plaster White 0.00 0.08	V99C5143	School 138	214	Dining Room		Chair	Wood	Grey	0.08	0.03	1.0	1	8/31/99 Any lead present is on the
School 138 215 Sports Room Wall Plaster White 0.24 0.11 School 138 216 Sports Room Wall Baseboard Wood Orange 0.07 0.05 School 138 217 Sports Room Window Casing Wood White 0.07 0.05 School 138 229 Sports Room toy, block Metal Green 0.04 0.07 School 138 221 Sports Room toy, block Wood Blue 0.04 0.07 School 138 222 Sports Room toy, block Wood Green 0.25 0.07 School 138 222 Sports Room toy, block Wood Green 0.04 0.02 School 138 222 Sports Room toy, block Wood Green 0.03 0.10 School 138 222 Sports Room Stairs Rail-cap Wood Brown 0.03 0.10 School 138 225 3-4 yr Play Room Wall Plaster White 0.09 0.08	1,000,1444	0-1-0	24.0		10.00			i				- 1	surface layer
School 138 216 Sports Room Wall Baseboard Mood Orange 0.07 0.05 School 138 217 Sports Room Window Casing Wood White 0.07 0.05 School 138 219 Sports Room toy, block Metal Green 0.04 0.09 School 138 220 Sports Room toy, block Wood Green 0.04 0.07 School 138 221 Sports Room toy, block Wood Green 0.04 0.07 School 138 222 Sports Room toy, block Wood Green 0.25 0.07 School 138 222 Sports Room toy, block Wood Brown 0.03 0.10 School 138 224 Sports Room Stairs Rail-cap Wood Brown 0.03 0.10 School 138 225 3-4 yr Play Room Wall Plaster White 0.00 0.08 School 138 225 3-4 yr Play Room Wall Plaster White 0.00 0.00 S	V99C5144	School 138	61.7	Sports Room	Wall		Plaster	Yin X	0.24	0.11	2.2		8/31/99 Any lead present is 2 layers deep
School 138 217 Sports Room Wall Baseboard Wood Wood Orange 0.07 0.05 School 138 218 Sports Room Window Casing Wood White 0.04 0.09 School 138 220 Sports Room toy, block Metal Green 0.84 0.17 School 138 221 Sports Room toy, block Wood Blue 0.04 0.02 School 138 222 Sports Room toy, block Wood Green 0.25 0.07 School 138 222 Sports Room toy, block Wood Green 0.25 0.07 School 138 224 Sports Room Wall Rail-cap Wood Brown 0.03 0.10 School 138 225 3-4 yr Play Room Wall Plaster White 0.00 0.08 0.08 School 138 227 3-4 yr Play Room Door Casing Wood Myod White 0.00 0.	V99C5145	School 138	216	Sports Room	Wall		Plaster	White	0.02	0.12	3.8		8/31/99 Any lead present is 4 to 5
School 138 218 Sports Room Window Casing Wood White 0.07 0.05 School 138 218 Sports Room Window Casing Wood White 0.04 0.07 School 138 220 Sports Room toy, block Metal Green 0.84 0.17 School 138 221 Sports Room toy, block Wood Blue 0.04 0.02 School 138 222 Sports Room toy, block Wood Green 0.25 0.07 School 138 223 Sports Room toy, block Wood Green 0.25 0.07 School 138 224 Sports Room Wall Rail-cap Wood Brown 0.03 0.10 School 138 225 3-4 yr Play Room Wall Plaster Green 0.29 0.13 School 138 226 3-4 yr Play Room Wall Plaster White 0.00 0.08 School 138 227 3-4 yr Play Room Door Casing Wood White 0.00 0.08 <td>10005440</td> <td>170</td> <td>120</td> <td></td> <td>147-11</td> <td></td> <td></td> <td>(</td> <td>100</td> <td></td> <td></td> <td>- 1</td> <td>layers deep</td>	10005440	170	120		147-11			(100			- 1	layers deep
School 138 218 Sports Room Window Casing Wood White 0.08 0.07 School 138 229 Sports Room toy, block Metal Green 0.04 0.09 School 138 221 Sports Room toy, block Wood Blue 0.04 0.02 School 138 222 Sports Room toy, block Wood Green 0.25 0.07 School 138 223 Sports Room toy, block Wood Green 0.25 0.07 School 138 224 Sports Room Stairs Rail-cap Wood Brown 0.03 0.10 School 138 225 3-4 yr Play Room Wall Plaster Green 0.29 0.13 School 138 225 3-4 yr Play Room Wall Plaster White 0.00 0.08 School 138 227 3-4 yr Play Room Wall Plaster White 0.00 0.08	V99C5146	SC1000138	/17	Sports Koom	Wall		DooM	Orange	0.07	0.05	1.2		8/31/99 Any lead present is on the surface laver
School 138 219 Sports Room toy, block Metal Yellow 0.04 0.09 School 138 220 Sports Room toy, block Wood Blue 0.04 0.07 School 138 221 Sports Room toy, block Wood Green 0.25 0.07 School 138 222 Sports Room toy, block Wood Green 0.25 0.07 School 138 223 Sports Room Stairs Rail-cap Wood Brown 0.03 0.10 School 138 225 3-4 yr Play Room Wall Plaster Green 0.29 0.13 School 138 226 3-4 yr Play Room Wall Plaster White 0.00 0.08 School 138 227 3-4 yr Play Room Door Casing Wood White 0.08 0.08	V99C5147	School 138	218	Sports Room	Window	Casing	Wood	White	0.08	0.07	1.7	8/31/99	8/31/99 Any lead present is 2
School 138 219 Sports Room toy, block Metal Yellow 0.04 0.09 School 138 220 Sports Room toy, block Wood Blue 0.04 0.07 School 138 222 Sports Room toy, block Wood Green 0.25 0.07 School 138 223 Sports Room toy, block Wood Green 0.08 0.33 School 138 224 Sports Room Stairs Rail-cap Wood Brown 0.03 0.10 School 138 225 3-4 yr Play Room Wall Plaster Green 0.09 0.08 School 138 226 3-4 yr Play Room Wall Plaster Green 0.00 0.08 School 138 227 3-4 yr Play Room Wall Plaster White 0.00 0.08													ayers deep
School 138 220 Sports Room toy, block Metal Green 0.84 0.17 School 138 221 Sports Room toy, block Wood Green 0.05 0.07 School 138 222 Sports Room toy, block Wood Green 0.25 0.07 School 138 223 Sports Room Stairs Rail-cap Wood Brown 0.08 0.10 School 138 225 3-4 yr Play Room Wall Plaster Green 0.29 0.13 School 138 226 3-4 yr Play Room Wall Plaster White 0.00 0.08 0.08 School 138 227 3-4 yr Play Room Door Casing Wood White 0.08 0.08 0.08	V99C5148	School 138	219	Sports Room			Metal	Yellow	0.04	0.09	2.2	8/31/99	8/31/99 Any lead present is 2
School 138 221 Sports Room toy, block Wood Blue 0.04 0.02 School 138 222 Sports Room toy, block Wood Green 0.25 0.07 School 138 223 Sports Room Stairs Rail-cap Wood Brown 0.03 0.10 School 138 225 3-4 yr Play Room Wall Plaster Green 0.29 0.13 School 138 226 3-4 yr Play Room Wall Plaster White 0.00 0.08 0.08 School 138 227 3-4 yr Play Room Door Casing Wood White 0.00 0.08 0.08	V99C5149	School 138	220	Sports Room			Metal	Green	0.84	0.17	1.1	8/31/99	8/31/99 Any lead present is on the
School 138 221 Sports Room toy, block Wood Blue 0.04 0.02 School 138 222 Sports Room toy, block Wood Green 0.25 0.07 School 138 223 Sports Room Stairs Rail-cap Wood Drange 0.08 0.10 School 138 225 3-4 yr Play Room Wall Plaster Green 0.29 0.13 School 138 226 3-4 yr Play Room Wall Plaster White 0.00 0.08 School 138 227 3-4 yr Play Room Door Casing Wood White 0.08 0.08													surface layer
School 138 222 Sports Room toy, block Wood Green 0.25 0.07 School 138 223 Sports Room Stairs Rail-cap Wood Brown 0.03 0.10 School 138 225 3-4 yr Play Room Wall Plaster Green 0.29 0.13 School 138 226 3-4 yr Play Room Wall Plaster White 0.00 0.08 School 138 227 3-4 yr Play Room Door Casing Wood White 0.08 0.08	V99C5150	School 138	221	Sports Room			Wood	Blue	0.04	0.02	1.0	8/31/99	8/31/99 Any lead present is on the surface laver
School 138 223 Sports Room toy, block Wood Orange 0.08 0.33 School 138 224 Sports Room Stairs Rail-cap Wood Brown 0.03 0.10 School 138 225 3-4 yr Play Room Wall Plaster Green 0.29 0.13 School 138 226 3-4 yr Play Room Wall Plaster White 0.00 0.08 School 138 227 3-4 yr Play Room Door Casing Wood White 0.08 0.08	V99C5151	School 138	222	Sports Room			Wood	Green	0.25	0.07	1.1	1	8/31/99 Any lead present is on the
School 138 224 Sports Room Stairs Rail-cap Wood Brown 0.03 0.10 School 138 225 3-4 yr Play Room Wall Plaster Green 0.29 0.13 School 138 226 3-4 yr Play Room Wall Plaster White 0.00 0.08 School 138 227 3-4 yr Play Room Door Casing Wood White 0.08 0.08	0.77.0001	007	300			Т							
School 138 225 3-4 yr Play Room Wall Rail-cap Wood Brown 0.03 0.10 School 138 226 3-4 yr Play Room Wall Plaster Green 0.29 0.13 School 138 226 3-4 yr Play Room Wall Plaster White 0.00 0.08 School 138 227 3-4 yr Play Room Door Casing Wood White 0.08 0.08	V99C5152	School 138	223	Sports Room			Wood	Orange	0.08	0.33	10.0		8/31/99 Any lead present is 4 to 5 layers deep
School 138 225 3-4 yr Play Room Wall Plaster Green 0.29 0.13 School 138 226 3-4 yr Play Room Wall Plaster White 0.00 0.08 School 138 227 3-4 yr Play Room Door Casing Wood White 0.08 0.08	V99C5153	School 138	224	Sports Room	Stairs	Rail-cap	Wood	Brown	0.03	0.10	1.0		8/31/99 Any lead present is on the
School 138 226 3-4 yr Play Room Wall Plaster White 0.00 0.08 School 138 227 3-4 yr Play Room Door Casing Wood White 0.08 0.08	V99C5154	School 138	225	3-4 yr Play Room	Wall		Plaster	Green	0.29	0.13	2.3	8/31/99	8/31/99 Any lead present is 2 to 3
School 138 227 3-4 yr Play Room Door Casing Wood White 0.08 0.08		School 138	226	3-4 vr Plav Room	Wali			White	000	0.08	1	8/31/90	8/31/09 No lead present
		School 138	227	3-4 yr Play Room		Casing		White	0.08	0.08		8/31/99	8/31/99 Any lead present is on the

Vladivostok Ecology Project: Surface Testing Results

School 138 228 3-4 yr Play Room Door Jamb Wood Write 0.03 0.05 1.0 8/31/99 School 138 229 3-4 yr Play Room Window Casing Wood Write 0.07 0.05 1.0 8/31/99 School 138 223 3-4 yr Play Room Window Casing Wood Write 0.07 0.05 1.0 8/31/99 School 138 223 3-4 yr Play Room Window Casing Wood Write 0.01 0.01 1.0 8/31/99 School 138 223 3-4 yr Play Room Wall Radiator Wasin Plaster Write 0.00 0.01 1.0 8/31/99 School 138 224 3-4 yr Play Room Wall Casing Wood Write 0.01 0.02 1.0 8/31/99 School 138 238 3-4 yr Play Room Wall Casing Wood Write 0.00 0.01 1.0 8/31/99 School 138 238 3-4 yr Play Room Wall Casing Wood Write 0.00 0.01 1.0 8/31/99 School 138 238 3-4 yr Play Room Wall Plaster Green 0.26 0.13 2.9 8/31/99 School 138 238 3-4 yr Play Room Wall Plaster Green 0.00 0.01 1.0 8/31/99 School 138 238 3-4 yr Play Room Wall Plaster Green 0.00 0.01 1.0 8/31/99 School 138 249 6-7 yr Play Room Wall Plaster Write 0.01 0.05 1.1 8/31/99 School 138 242 6-7 yr Play Room Wall Plaster Pluk 0.05 0.05 1.1 8/31/99 School 138 242 6-7 yr Play Room Wall Plaster Pluk 0.05 0.05 1.2 8/31/99 School 138 242 6-7 yr Play Room Window Casing Wood Write 0.05 0.05 1.2 8/31/99 School 138 243 6-7 yr Play Room Window Casing Wood Write 0.05 0.05 1.2 8/31/99 School 138 245 6-7 yr Play Room Window Casing Wood Write 0.05 0.05 1.2 8/31/99 School 138 246 6-7 yr Play Room Window Casing Wood Write 0.05 0.05 1.2 8/31/99 School 138 246 6-7 yr Play Room Window Casing Wood Write 0.05 0.05 1.2 8/31/99 School 138 246 6-7 yr Play Room Window Casing Wood Write 0.07 0.05 1.2 8/31/99 School 138 246 6-7 yr Play Room Window Casing Wood Write 0.07 0.05 1.0 8/31/99 School 138 2	Number	Site	XL #	XL # Room	Structure	Feature	Substrate Color	Color	PbL		Depth		Date Note
School 138 228 3-4 yr Play Room Door Wood Wood White 0.10 0.07 1.4 School 138 229 3-4 yr Play Room Window Casing Wood White 0.05 0.05 1.0 School 138 230 3-4 yr Play Room Window Casing Wood White 0.07 0.05 1.0 School 138 232 3-4 yr Play Room Window Casing Wood White 0.07 0.05 1.0 School 138 233 3-4 yr Play Room Wall Radiator Metal Green 0.12 0.07 1.0 School 138 233 3-4 yr Play Room Wall Plaster Green 0.13 0.11 2.3 School 138 236 3-4 yr Play Room Window Casing Wood White 0.01 0.01 1.0 School 138 237 3-4 yr Play Room Window Casing Wood White 0.01 0.10 1.0 School 138 237 3-4 yr Play Room Window Casing									(mg/cm-)	\neg	Index		Slirface Javer
School 138 229 3-4 yr Play Room Window Casing Wood White 0.03 0.05 1.0 School 138 230 3-4 yr Play Room Window Casing Wood White 0.05 0.05 1.0 School 138 231 3-4 yr Play Room Window Casing Wood White 0.01 0.07 1.0 1.4 School 138 233 3-4 yr Play Room Wall Plaster Green 0.13 0.11 2.3 School 138 234 3-4 yr Play Room Wall Plaster White 0.01 0.02 1.0 1.0 School 138 236 3-4 yr Play Room Wall Plaster White 0.01 0.01 0.10 1.1 8 School 138 236 3-4 yr Play Room Wall Plaster Green 0.10 0.01 0.01 0.01 0.10 1.1 8 School 138 238 3-4 yr Play Room Wall Plaster Blue 0.10 0.05 1.1 8 School 1	V99C5157	School 138	228	3-4 yr Play Room	Door	Jamb	Wood	Orange	0.10	0.07	1.4		Any lead present is on the
School 138 230 3.4 yr Play Room Window Casing Wood White 0.07 0.05 1.3 School 138 231 3.4 yr Play Room Window Sash Wood White 0.07 0.05 1.0 School 138 232 3.4 yr Play Room Wall Plaster Green 0.12 0.07 1.4 School 138 233 3.4 yr Play Room Wall Plaster Green 0.13 0.11 2.3 School 138 235 3.4 yr Play Room Window Casing Wood White 0.01 0.03 1.0 School 138 236 3.4 yr Play Room Wall Plaster Green 0.26 0.13 2.3 School 138 237 3.4 yr Play Room Wall Plaster Green 0.26 0.10 1.0 School 138 237 3.4 yr Play Room Wall Plaster Mood White 0.10 0.05 1.1 School 138 249 6-7 yr Play Room Wall Plaster Plak 0.10 0.05	V99C5158		229	3-4 yr Play Room	Door	Door	Wood	White	0.03	0.05	10	!	Surface layer Any lead present is on the
School 138 230 3-4 yr Play Room Window Casing Wood White 0.07 0.05 1.3 8/31/99 School 138 231 3-4 yr Play Room Window Sash Wood White 0.05 0.05 1.0 8/31/99 School 138 232 3-4 yr Play Room Wall Plaster Green 0.18 0.01 0.05 1.0 8/31/99 School 138 233 3-4 yr Play Room Wall Plaster Green 0.13 0.11 2.3 8/31/99 School 138 235 3-4 yr Play Room Window Casing Wood White 0.01 0.02 1.0 8/31/99 School 138 237 3-4 yr Play Room Wall Plaster Green 0.26 0.11 2.3 8/31/99 School 138 237 3-4 yr Play Room Window Casing Wood White 0.09 0.10 1.1 8/31/99 School 138 237 3-4 yr Play Room Window Casing Wood White 0.00 0.01 1.1 8/31/99 School 138 239 3-4 yr Play Room <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td><td></td><td>surface laver</td></t<>											2		surface laver
School 138 231 3-4 yr Play Room Window Sash Wood White 0.05 0.05 1.04 School 138 232 3-4 yr Play Room Wall Radiator Metal Green 0.18 0.06 1.04 School 138 234 3-4 yr Play Room Wall Plaster White 0.00 0.03 1.01 School 138 235 3-4 yr Play Room Window Casing Wood White 0.01 0.01 1.01 School 138 235 3-4 yr Play Room Wall Plaster Green 0.09 0.10 1.08 School 138 236 3-4 yr Play Room Wall Plaster Green 0.26 0.13 2.98 School 138 239 3-4 yr Play Room Window Casing Wood White 0.10 0.10 0.10 1.18 School 138 240 6-7 yr Play Room Wall Plaster Plink 0.15 0.21 1.18 School	V99C5159		230	3-4 yr Play Room	Window	Casing	Wood	White	0.07	0.05	1.3	8/31/99	Any lead present is on the
School 138 232 3-4 yr Play Room Wall Radiator Metal Green 0.12 0.07 1.4 School 138 233 3-4 yr Play Room Wall Plaster Green 0.18 0.08 1.6 School 138 234 3-4 yr Play Room Wall Plaster White 0.01 0.03 1.0 School 138 235 3-4 yr Play Room Window Casing Wood White 0.01 0.02 1.0 School 138 237 3-4 yr Play Room Wall Plaster Green 0.26 0.13 2.9 School 138 239 3-4 yr Play Room Window Casing Wood White 0.10 0.10 1.16 School 138 240 6-7 yr Play Room Wall Plaster Plaster Pink 0.16 0.10 0.10 1.18 School 138 242 6-7 yr Play Room Wall Plaster Pink 0.05 0.05 1.18 School 138 244 6-7 yr Play Room Window Casing Wood White <td>V99C5160</td> <td>School 138</td> <td>231</td> <td>3-4 yr Play Room</td> <td></td> <td>Sash</td> <td>Wood</td> <td>White</td> <td>0.05</td> <td>0.05</td> <td>1.0</td> <td></td> <td>Surface layer Any lead present is on the</td>	V99C5160	School 138	231	3-4 yr Play Room		Sash	Wood	White	0.05	0.05	1.0		Surface layer Any lead present is on the
School 138 232 3.4 yr Play Room Wall Radiator Metal Green 0.12 0.07 1.4 8/31/99 School 138 233 3.4 yr Play Room Wall Plaster Green 0.18 0.08 1.6 8/31/99 School 138 234 3.4 yr Play Room Window Casing Wood White 0.01 0.03 1.0 8/31/99 School 138 235 3.4 yr Play Room Window Casing Wood White 0.01 0.02 1.0 8/31/99 School 138 236 3.4 yr Play Room Window Casing Wood White 0.09 0.10 1.8 8/31/99 School 138 236 3.4 yr Play Room Window Casing Wood White 0.10 0.10 1.1 8/31/99 School 138 240 6-7 yr Play Room Wall Plaster Plaster Plaster Plaster Plaster Plaster 1.1 8/31/99 School 138 245 6-7 yr Play Room Wall Plaster Plaster Plaster Plaster Plaster Plaster Plaster													surface layer
School 138 234 yr Play Room Wall Plaster Green 0.18 1.6 8731/99 Any lead present is surface layer School 138 234 34 yr Play Room Wall Plaster White 0.00 0.03 1.0 8/31/99 Any lead present is surface layer School 138 235 34 yr Play Room Window Casing Wood White 0.01 0.11 2.3 8/31/99 Any lead present is surface layer School 138 236 34 yr Play Room Door Casing Wood White 0.01 1.8 8/31/99 Any lead present is surface layer School 138 236 34 yr Play Room Wall Plaster Green 0.26 0.13 2.9 8/31/99 Any lead present is layers deep School 138 236 34 yr Play Room Wall Plaster Green 0.26 0.13 2.9 8/31/99 Any lead present is layers deep School 138 237 34 yr Play Room Wall Plaster Blue 0.10 0.10 1.1 8/31/99 Any lead present is layers deep School 138 247 6-7 yr Play Room Wall <td< td=""><td>V99C5161</td><td>School 138</td><td>232</td><td>3-4 yr Play Room</td><td></td><td>Radiator</td><td>Metal</td><td>Green</td><td>0.12</td><td>0.07</td><td>1.4</td><td>8/31/99</td><td>Any lead present is on the</td></td<>	V99C5161	School 138	232	3-4 yr Play Room		Radiator	Metal	Green	0.12	0.07	1.4	8/31/99	Any lead present is on the
School 138 236 3-4 yr Play Room Wall Plaster White 0.10 0.01 0.02 1.0 0.11 0.13 0.13 0.1	V99C5162	School 138	233	3-4 vr Plav Room	Wall			Loon	0.10	000	10		surface layer
School 138 234 3-4 yr Play Room Wall Plaster White 0.00 0.03 1.0 School 138 235 3-4 yr Play Room Window Casing Wood White 0.01 0.01 0.01 2.3 School 138 236 3-4 yr Play Room Door Casing Wood White 0.09 0.10 1.6 School 138 238 3-4 yr Play Room Window Casing Wood White 0.10 0.10 1.6 School 138 239 3-4 yr Play Room Window Casing Wood White 0.10 0.10 1.6 School 138 240 6-7 yr Play Room Wall Plaster Blue 0.10 0.05 1.1 3.3 School 138 242 6-7 yr Play Room Wall Plaster Pink 0.05 0.06 1.1 8 School 138 245 6-7 yr Play Room Window Casing Wood White 0.05 0.05 1.1 8 School 138 245 6-7 yr Play Room Windo					5				5	000	0.		Any lead present is on the surface laver
School 138 235 3-4 yr Play Room Window Casing Wood White 0.13 0.11 2.33 School 138 236 3-4 yr Play Room Cabinet Door-Out Wood White 0.09 0.10 1.8 School 138 237 3-4 yr Play Room Wall Plaster Green 0.26 0.13 2.9 School 138 239 3-4 yr Play Room Window Casing Wood White 0.10 0.10 1.6 School 138 240 6-7 yr Play Room Wall Plaster Blue 0.15 0.21 3.3 School 138 242 6-7 yr Play Room Wall Plaster Pink 0.15 0.05 1.1 8 School 138 242 6-7 yr Play Room Wood White 0.05 0.05 1.1 8 School 138 245 6-7 yr Play Room Window Jamb Wood Orange 0.05 0.05 1.1 8 School 138 245 6-7 yr Play Room Window Casing Wood Or	V99C5163	School 138	234	3-4 yr Play Room				White	00.00	0.03	1.0		No lead present
School 138 236 3-4 yr Play Room Cabinet Door-Out Wood White 0.01 0.02 1.0 School 138 237 3-4 yr Play Room Wall Plaster Green 0.26 0.13 2.9 School 138 238 3-4 yr Play Room Window Casing Wood White 0.10 0.10 0.10 1.6 School 138 240 6-7 yr Play Room Wall Plaster Blue 0.10 0.00 1.1 8 School 138 242 6-7 yr Play Room Wall Plaster Plink 0.15 0.21 3.3 8 School 138 242 6-7 yr Play Room Wood Wood White 0.05 0.05 1.1 8 School 138 244 6-7 yr Play Room Door Jamb Wood Orange 0.15 0.05 1.1 8 School 138 245 6-7 yr Play Room Window Casing Wood Orange 0.07 0.05 1.2 8 School 138 245 6-7 yr Play Room	V99C5164	School 138	235	3-4 yr Play Room		Casing		White	0.13	0.11	2.3		Any lead present is 2 to 3
School 138 236 3-4 yr Play Room Cabinet Door-Out Wood White 0.01 0.02 1.0 School 138 237 3-4 yr Play Room Wall Plaster Green 0.26 0.13 2.9 School 138 238 3-4 yr Play Room Wall Plaster Green 0.26 0.13 2.9 School 138 240 6-7 yr Play Room Wall Plaster Blue 0.10 0.10 1.16 School 138 242 6-7 yr Play Room Wall Plaster Plink 0.15 0.21 3.3 3 School 138 242 6-7 yr Play Room Wall Plaster Pink 0.05 0.06 1.18 8 School 138 244 6-7 yr Play Room Door Jamb Wood White 0.05 0.06 1.18 8 School 138 244 6-7 yr Play Room Window Casing Wood Orange 0.05 0.06 1.18 8 School 138 245 6-7 yr Play Room Window Sash Wood	10000		000										layers deep
School 138 237 3-4 yr Play Room Door Casing Wood White 0.09 0.10 1.8 School 138 238 3-4 yr Play Room Wall Plaster Green 0.26 0.13 2.9 School 138 239 3-4 yr Play Room Window Casing Wood White 0.10 0.10 1.6 School 138 240 6-7 yr Play Room Wall Plaster White 0.15 0.21 3.3 School 138 242 6-7 yr Play Room Wall Plaster Pink 0.18 0.05 1.18 School 138 244 6-7 yr Play Room Door Casing Wood White 0.05 0.05 1.1 School 138 245 6-7 yr Play Room Window Casing Wood Orange 0.15 0.07 0.05 1.2 School 138 245 6-7 yr Play Room Window Casing Wood White 0.07 0.05 1.2 School 138 246 6-7 yr Play Room Window Casing Wood	V99C5165	School 138	236	3-4 yr Play Room		Door-Out		White	0.01	0.05	1.0	8/31/99	Any lead present is on the
School 138 23/ 3-4 yr Play Room Door Casing Wood White 0.09 0.10 1.8 School 138 238 3-4 yr Play Room Wall Plaster Green 0.26 0.13 2.9 School 138 240 6-7 yr Play Room Wall Plaster White 0.10 0.00 1.1 School 138 242 6-7 yr Play Room Wall Plaster Plaster Plink 0.05 0.05 1.1 School 138 242 6-7 yr Play Room Door Casing Wood White 0.05 0.06 1.1 School 138 244 6-7 yr Play Room Door Jamb Wood White 0.05 0.05 1.1 School 138 245 6-7 yr Play Room Window Casing Wood White 0.07 0.05 1.2 School 138 245 6-7 yr Play Room Window Casing Wood White 0.07 0.05 0.05 1.2 School 138 245 6-7 yr Play Room Window Casing	10001		100										surface layer
School 138 238 3-4 yr Play Room Wall Plaster Green 0.26 0.13 2.9 School 138 239 3-4 yr Play Room Window Casing Wood White 0.10 0.01 1.6 School 138 240 6-7 yr Play Room Wall Plaster Plaster White 0.15 0.21 3.3 School 138 242 6-7 yr Play Room Wall Plaster Plaster Pink 0.15 0.05 1.1 School 138 243 6-7 yr Play Room Door Jamb Wood White 0.05 0.05 1.3 School 138 245 6-7 yr Play Room Window Casing Wood Orange 0.15 0.07 1.3 School 138 245 6-7 yr Play Room Window Casing Wood White 0.05 0.05 1.2 8 School 138 245 6-7 yr Play Room Window Casing Wood White 0.07 0.05 0.05 0.05 1.2 0.05 0.05 0.05	V99C5166	School 138	237	3-4 yr Play Room		Casing		White	0.09	0.10	6.	8/31/99	
School 138 239 3-4 yr Play Room Window Casing Wood White 0.10 0.13 2.9 School 138 240 6-7 yr Play Room Wall Plaster White 0.10 0.05 1.1 School 138 241 6-7 yr Play Room Wall Plaster White 0.15 0.21 3.3 School 138 242 6-7 yr Play Room Door Casing Wood White 0.05 0.05 0.06 1.1 School 138 244 6-7 yr Play Room Door Jamb Wood Orange 0.15 0.07 1.3 0.05 0.05 0.05 1.1 0.05 0.05 0.05 1.2 0.06 1.1 0.06 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.06 0.05 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0	1,000,000	0001 100	000		10,47								ayers deep
School 138 239 3-4 yr Play Room Window Casing Wood White 0.10 0.10 1.6 School 138 240 6-7 yr Play Room Wall Plaster Blue 0.10 0.05 1.1 School 138 242 6-7 yr Play Room Wall Plaster Pink 0.18 0.05 1.8 School 138 243 6-7 yr Play Room Door Casing Wood White 0.05 0.05 1.1 8 School 138 244 6-7 yr Play Room Window Casing Wood Orange 0.15 0.07 1.3 8 School 138 245 6-7 yr Play Room Window Casing Wood Orange 0.05 1.2 8 School 138 246 6-7 yr Play Room Window Casing Wood White 0.07 0.05 1.2 8	/91c>64	SC1000138	238	3-4 yr Play Room	Wall			Green	0.26	0.13	2.9	8/31/99	2
School 138 240 6-7 yr Play Room Window Casing Wood White 0.10 0.10 1.6 School 138 240 6-7 yr Play Room Wall Plaster White 0.15 0.21 3.3 School 138 242 6-7 yr Play Room Wall Plaster Pink 0.18 0.09 1.8 School 138 243 6-7 yr Play Room Door Casing Wood White 0.05 0.05 1.1 School 138 245 6-7 yr Play Room Window Casing Wood Orange 0.07 1.2 School 138 245 6-7 yr Play Room Window Casing Wood White 0.07 0.05 1.2 School 138 246 6-7 yr Play Room Window Casing Wood White 0.07 0.05 1.2	VOOCE460	0000	250		T								ayers deep
School 138 240 6-7 yr Play Room Wall Plaster Blue 0.10 0.05 1.1 School 138 242 6-7 yr Play Room Wall Plaster Plink 0.18 0.09 1.8 School 138 243 6-7 yr Play Room Door Casing Wood White 0.05 0.05 0.06 1.1 School 138 245 6-7 yr Play Room Window Casing Wood White 0.05 0.05 1.2 School 138 245 6-7 yr Play Room Window Casing Wood White 0.07 0.05 1.2 School 138 245 6-7 yr Play Room Window Sash Wood White 0.07 0.05 0.05 1.2	V89C5168	SC11001138	239			Casing		White	0.10	0.10	9.	8/31/99	Any lead present is on the
School 138 244 6-7 yr Play Room Wall Plaster White 0.15 0.21 3.3 School 138 242 6-7 yr Play Room Wall Plaster Plink 0.18 0.09 1.8 School 138 243 6-7 yr Play Room Door Casing Wood White 0.05 0.06 1.1 School 138 245 6-7 yr Play Room Window Casing Wood White 0.07 0.05 1.2 School 138 245 6-7 yr Play Room Window Casing Wood White 0.07 0.05 1.2 School 138 246 6-7 yr Play Room Window Casing Wood White 0.07 0.05 0.06 1.1	1,000 54.00	14.00	0,0									"	surface layer
School 138 241 6-7 yr Play Room Wall Plaster White 0.15 0.21 3.3 School 138 242 6-7 yr Play Room Wall Plaster Plink 0.18 0.09 1.8 School 138 244 6-7 yr Play Room Door Jamb Wood Orange 0.15 0.07 1.3 School 138 245 6-7 yr Play Room Window Casing Wood White 0.07 0.05 1.2 School 138 245 6-7 yr Play Room Window Casing Wood White 0.07 0.05	60100667	SCH001 138	240	b-/ yr Play Koom	Wall			Blue	0.10	0.05	7.	8/31/99	Any lead present is on the
School 138 242 6-7 yr Play Room Wall Plaster Plink 0.18 0.09 1.8 School 138 244 6-7 yr Play Room Door Jamb Wood Orange 0.15 0.07 1.3 School 138 245 6-7 yr Play Room Window Casing Wood White 0.07 0.05 1.2 School 138 245 6-7 yr Play Room Window Casing Wood White 0.07 0.05 1.2 School 138 246 6-7 yr Play Room Window Sash Mood White 0.07 0.05	V99C5170	School 138	241	3-7 vr Plav Room	Wall			White	0 15	0.04	2.2	0/24/00/	
School 138 242 6-7 yr Play Room Wall Plaster Pink 0.18 0.09 1.8 School 138 243 6-7 yr Play Room Door Casing Wood White 0.05 0.06 1.1 School 138 244 6-7 yr Play Room Window Casing Wood Orange 0.15 0.07 1.3 School 138 245 6-7 yr Play Room Window Casing Wood White 0.07 0.05 1.2 School 138 246 6-7 yr Play Room Window Sash Mood White 0.05								2	2	7.0		166/10/0	avers deep
School 138 243 6-7 yr Play Room Door Casing Wood White 0.05 0.06 1.1 School 138 244 6-7 yr Play Room Window Casing Wood Orange 0.15 0.07 1.3 School 138 245 6-7 yr Play Room Window Casing Wood White 0.07 0.05 1.2 School 138 246 6-7 yr Play Room Window Sash Mood Mhite 0.05 0.05 0.05 1.2	V99C5171	School 138	242		Wall			Pink	0.18	0.09	1.8	8/31/99	
School 138 245 6-7 yr Play Room Door Casing Wood White 0.05 0.05 1.1 School 138 245 6-7 yr Play Room Window Casing Wood White 0.07 0.05 1.2 School 138 246 6-7 yr Play Room Window Sash Wood White 0.07 0.05 0.05 1.2													ayers deep
School 138 244 6-7 yr Play Room Door Jamb Wood Orange 0.15 0.07 1.3 School 138 245 6-7 yr Play Room Window Casing Wood White 0.07 0.05 1.2 School 138 246 6-7 yr Play Room Window Sash Wood White 0.05 <	V99C5172	School 138	243					White	0.05	90.0	1.1	8/31/99	Any lead present is on the
School 138 245 6-7 yr Play Room Window Casing Wood White 0.07 0.05 1.2 School 138 246 6-7 yr Play Room Window Sash Wood White 0.05 0.05 1.2	1,000,5472	400	7	\neg								0)	urface layer
School 138 246 6-7 vr Play Room Window Casing Wood White 0.07 0.05 1.2 8/31/99 School 138 246 6-7 vr Play Room Window Sash Wood White 0.05 0.05 1.1 9/31/00	67160684	SCH001 138	744					Orange	0.15	0.07	<u>6.</u>	8/31/99/	Any lead present is on the
School 138 246 6-7 vr Play Room Window Sash Wood White 0.07 0.05 1.2 8/31/99	VOOCE174	Cohoo 120	0.45	Т	T							S	urface layer
School 138 246/6-7 vr Play Room Window Sash Wood White 0.05 1.1	47100667	OC11001130	C47					White	0.07	0.05	1.2	8/31/99/	Any lead present is on the
	_	School 138	246					White	0.05	30.0	7	0/24/00/	uriace layer

Vladivostok Ecology Project: Surface Testing Results

Number	Site	# ×	XI # Room	Structure	Feature	Substrate Color	Color	+ ING	+	Donth	Data Note	STON STON
								(mg/cm²) (mg/cm²)	(mg/cm²)	Index		
												surface layer
V99C5176	School 138	247	247 6-7 yr Play Room		Radiator	Wood	Pink	0.08	0.07	1.3		8/31/99 Any lead present is on the
V99C5177	School 138	248	248 6-7 yr Play Room		toy, block	Metal	Yellow	0.76	0.16	1.3	8/31/99	
1000 E4 70	0.1.	9										surface layer
8716268	SC1000138	248	249 b-7 yr Play Koom		Chair	Metal	Grey	0.11	0.02	1.0		8/31/99 Any lead present is on the surface laver
V99C5179	School 138	250	250 6-7 yr Play Room		Chair	Wood	Green	0.20	0.12	1.1	8/31/99	8/31/99 Any lead present is on the
70007	1.0	710	0									surface layer
V99C5180	School 138	727	251 6-7 yr Play Koom	Outside	hand rail	Metal	Pink	1.57	0.19	4.	8/31/99	8/31/99 Any lead present is on the surface layer
V99C5181	School 138	252	252 6-7 yr Play Room	Playground	Equipment	Metal	Pink	1.10	0.15	1.2	8/31/99	8/31/99 Any lead present is on the
0000		0		- 1							- 1	surface layer
V99C5182	School 138	253	253 6-7 yr Play Room	Playground	Equipment	Metal	Blue	0.48	0.09	6 .		8/31/99 Any lead present is on the
7,000,1400	007	100	1									surface layer
V99C5183	School 138	724	254 6-7 yr Play Koom	Playground	Equipment	Metal	Blue	0.03	0.05	0.1	8/31/99	8/31/99 Any lead present is on the
10001		1	1									surface layer
V99C5184	School 138	722	255 6-7 yr Play Koom	Playground	Equipment	Mood	Green	0.01	0.11	5.		8/31/99 Any lead present is on the
70001		CLC	ב ב ב								- 1	surface layer
V99C5185	School 138	967	256 6-7 yr Play Room	Playground	Equipment	Wood	Green	0.03	0.08	9.		8/31/99 Any lead present is on the
0071000	- 0	110	0									surrace layer
V99C5186	School 138	797	257 6-7 yr Play Room	Playground	Equipment	Wood	Orange	0.57	0.10	1.3	8/31/99	8/31/99 Any lead present is on the
1												surface layer
V99C5187	School 138	258	258 6-7 yr Play Room	Playground I	Equipment	Metal	Blue	1.80	0.41	2.3	8/31/99	8/31/99 Any lead present is 2 to 3
7,000,1400	420	010						1				layers deep
8815788	SC11001138	607	259 6-7 yr Piay Koom	 Flayground	Equipment	Metal	Yellow	0.15	0.04	0.	8/31/99	8/31/99 Any lead present is on the
V99C5189	School 138	260	260 6-7 vr Play Room	Rench		Wood	Dod	76.0	700	-	0/24/00	Sulface layer
		3		5			7	0.27	40.0	<u>.</u>	66/10/0	o/31/99 Any lead present is on the
V99C5190	School 138	261	261 6-7 yr Play Room	Bench		Wood	Green	3.44	0.30	2.4	8/31/99	8/31/99 Any lead present is 2 to 3
										i		avers deep
V99C5191	School 138	262	262 6-7 yr Play Room	Bench		l booW	Blue	0.13	0.03	1.0		8/31/99 Any lead present is on the
												surface layer
V99C5192	School 132	263	263 Calibration					09.0	0.00	0.0	8/31/99	8/31/99 Any lead present is on the
1/00/5103	Cohool 132	787	2 3 vr Dlay Doom	110/1/1		I	20.00	77	100	0	00,70,0	surface layer
V 89C3 193	SCI 1001 132	707	2-5 yr Fiay Room	۸۸طاا		Plaster	peige	0.77	0.77	7.0	8/31/99/	8/31/99/Any lead present is 2 to 3
											=	ayers ueep

Vladivostok Ecology Project: Surface Testing Results

School 132 266 2-3 yr Play Room School 132 266 2-3 yr Play Room School 132 267 2-3 yr Play Room School 132 269 2-3 yr Play Room School 132 270 2-3 yr Play Room School 132 272 2-3 yr Play Room School 132 272 2-3 yr Play Room School 132 273 2-3 yr Play Room School 132 275 2-3 yr Play Room School 132 276 2-3 yr Play Room School 132 276 2-3 yr Play Room School 132 276 2-3 yr Play Room School 132 277 2-3 yr Play Room School 132 278 2-3 yr Play Room School 132 278 2-3 yr Play Room		reature	Substrate Color	Color	PbL	+1	Depth	Date Note	je j
	oom Wall		Plaster	Beige	(mg/cm²) (mg/cm²) 0.59 0.1	(mg/cm²) 0.17	Index 2.1		8/31/99 Any lead present is 2
				0			i		layers deep
			Plaster	Other	0.00	0.03	1.0		8/31/99 No lead present
269 270 271 272 274 275 276 276 276 278 278 278 278 278	oom Wall		Plaster	Green	0.05	0.08	1.2	1	8/31/99 Any lead present is on the
270 271 272 272 274 275 275 276 276 277 278	oom Cabinet	Door-Ins	Mood	Green	0.25	0.10	1.9	1	8/31/99 Any lead present is 2
	mod	Baseboard	Wood	Orange	1.39	0.17	1.6		8/31/99 Any lead present is on the
272 273 274 275 275 276 277 278	moc	Chair	Wood	Yellow	0.81	0.05	1.0	8/31/99 Any	8/31/99 Any lead present is on the
	тос	Chair	Wood	Yellow	0.53	0.11	1.5	8/31/99 Any	8/31/99 Any lead present is on the
	om Window	Casing	Wood	White	0.10	0.25	2.9		8/31/99 Any lead present is 2 to 3
275 275 276 277 277 278	moc	toy, block	Wood	Yellow	1.43	0.20	1.7	8/31/99 Any	8/31/99 Any lead present is on the
	moc	toy, ladybug	Metal	Red	0.07	0.05	1.1	8/31/99 Any surf	8/31/99 Any lead present is on the surface layer
	om Cabinet	Wall	Metal	Orange	0.05	0.03	1.0	8/31/99 Any surf	8/31/99 Any lead present is on the surface layer
	om Piano		Metal	Black	0.34	0.13	1.5	8/31/99 Any	8/31/99 Any lead present is on the surface layer
	om Window	Casing	Wood	White	0.03	0.08	1.6	8/31/99 Any	8/31/99 Any lead present is on the surface layer
_	om Window	Sash	Wood	White	0.16	0.14	2.3	8/31/99 Any	8/31/99 Any lead present is 2 to 3
	om Wall		Plaster	Other	0.05	0.10	10.0	8/31/99 Any	8/31/99 Any lead present is 4 to 5 layers deen
School 132 280 2-3 yr Play Room	om Door	Door	Wood	White	0.18	0.09	2.0	8/31/99 Any	8/31/99 Any lead present is 2
	om	Baseboard	Mood	Green	0.20	0.10	1.8	8/31/99 Any lave	8/31/99 Any lead present is 2 layers deep
	om	Baseboard	Моод	Orange	0.17	0.07	1.4	8/31/99 Any surfa	8/31/99 Any lead present is on the surface layer
School 132 283 2-3 yr Play Room	om	toy, block	Wood	Green	60.0	0.03	1.0	8/31/99 Any surfa	8/31/99 Any lead present is on the surface layer

Vladivostok Ecology Project: Surface Testing Results

Number	Site	XL#	XL # Room	Structure	Feature	Substrate Color	Color	PbL	+	Depth		Date Note
								(mg/cm ²)	(mg/cm²) (mg/cm²)	Index		
V99C5213	School 132	284	284 2-3 yr Play Room		toy, block	Wood	Red	0.02	0.15	1.4		8/31/99 Any lead present is on the
V 1000	100 Hood 100	200			A 1.1.	101	ā	0	6			
V99C3214	SCH001 132	C07	265 2-3 yr Play Room		toy, block	Mood	Blue	0.04	0.13	<u>ς</u> ∞.		8/31/99 Any lead present is 2
V99C5215	School 132	286	286 2-3 yr Play Room		tov. block	Wood	Yellow	0.30	0.04	10		8/31/99 Any lead present is on the
												surface layer
V99C5216	School 132	287	2-3 yr Play Room		toy, block	Wood	Green	0.05	0.17	7.8		8/31/99 Any lead present is 4 to 5
1/00/5217	Cohool 122	200	2 2 ve Blow Boom		toold to	10/00		000	0.40			
11760664	SC11001135	700	200 2-3 yr Fiay Room		toy, plock	DOOM	eline	0.03	0.18	3.5		8/31/99/Any lead present is 2 to 3
V99C5218	School 132	289	289 2-3 yr Play Room		toy, block	Metal	Blue	0.17	0.04	1.0		8/31/99 Any lead present is on the
		1									- 1	surface layer
V99C5219	School 132	2 <u>30</u>	290 2-3 yr Play Room	Cabinet	Shelf	Mood	Green	0.04	0.05			8/31/99 Any lead present is on the
00010007	- 0	3	i d									
V99C5Z20	School 132	787	291 Z-3 yr Play Koom	Wobniw	Casing	Mood	White	0.13	0.00	1.7		8/31/99 Any lead present is 2
V99C5221	School 132	292	2-3 vr Plav Room	Window	Sash	Wood	White	0.03	0.05	10		8/31/00 Any load proport in on the
			- 0)			000			9.0	2.		surface layer
V99C5222	School 132	293	2-3 yr Play Room	Door	Casing	poo∧	White	0.21	0.21	3.5		8/31/99 Any lead present is 2 to 3
												layers deep
V99C5223	School 132	294	294 2-3 yr Play Room	Door	Door	Wood	White	0.05	0.04	1.0		8/31/99 Any lead present is on the
100000	0-1-1400	200			- 1	141		,				
V99C5ZZ4	School 132	282	295 2-3 yr Play Koom		baseboard	Mood	Orange	1.11	0.42	2.4	8/31/99	8/31/99 Any lead present is 2 to 3
1000000	1400	000			- 1	141		10				layers deep
V99C5Z55	SC0001132	790	290 2-3 yr Piay Koom		Baseboard	Mood	Orange	1.07	0.21	2.3		8/31/99/Any lead present is 2 to 3 lavers deep
V99C5226	School 132	297	2-3 yr Play Room	Window	Casing	Wood	White	0.01	0.04	1.0		8/31/99 Any lead present is on the
												surface layer
V99C5227	School 132	298	298 2-3 yr Play Room	Window	Sash	Wood	White	0.07	90.0	1.6		8/31/99 Any lead present is on the
												surface layer
V99C5228	School 132	299	2-3 yr Play Room		Chair		Red	0.00	0.17	1.0		8/31/99 No lead present
V99C5229	School 132	300	2-3 yr Play Room		Chair	Wood	Blue	0.01	0.12	1.0		8/31/99 Any lead present is on the
V99C5230	School 132	301	301 4-5 vr Plav Room	Wall		Wood	Pink	0 29	0.30	4.5	4	8/31/99 Any lead present is 4 to 5
								2	9	2.		layers deep
1	School 132	302	302 4-5 yr Play Room		toy, block		Red	0.00	0.01	1.0	8/31/99	1.0 8/31/99 No lead present
V99C5232	School 132	303	303 4-5 yr Play Room		toy, block	Wood	Blue	20.0	0.13	9.7	8/31/99	7.6 8/31/99 Any lead present is 4 to 5

Vladivostok Ecology Project: Surface Testing Results

Number	Site	XL #	XL # Room	Structure	Feature	Substrate Color	Color	PbL (mg/cm²)	<u>+</u> (mg/cm²)	Depth Index	Date Note	Note
00010001		3										layers deep
V99C5233	School 132	304	304 4-5 yr Play Room		toy, block	Wood	Blue	0.00		1.0		8/31/99 No lead present
V99C5234	School 132	302	4-5 yr Play Room		toy, block	Mood	Yellow	0.43	90.0	1.0	8/31/99	8/31/99 Any lead present is on the
1000000	1.00	000	0									surface layer
V89C5235	SCH001 132	300	306 4-5 yr Play Koom		toy, block	Mood	Yellow	0.05	0.03	0.1	8/31/99	8/31/99 Any lead present is on the
V99C5236	School 132	307	307 4-5 vr Play Boom		tov block	Mood	Dink	20.0	770	1	00/14/00	Surface fayer
	20100	3	1-0 yr 1 kg 1 00 ll		toy, block	000	¥	0.75	2.0	4.	8/31/99	6/31/99 Any lead present is on the surface laver
V99C5237	School 132	308	Exterior	Wall		Plaster	White	0.00	0.07	1.0	8/31/99	8/31/99 No lead present
V99C5238	School 132	309	309 Exterior	Wall		Plaster	Black	0.01	0.14	1.6		8/31/99 Any lead present is on the
00010007		9,0										surface layer
V99C5Z39	School 132	310	310 Exterior	Window	Casing	Metal	Blue	0.21	0.10	1.8	8/31/99	8/31/99 Any lead present is 2
V99C5240	School 132	311	311 Exterior		Giraffe	Metal	Yellow	>>5.0	1.00	2.0	8/31/99	8/31/99 Any lead present is 2
V99C5241	School 132	312	312 Exterior	1	Giraffe	Metal	Yellow	4.20	1.90	1.8	8/31/99	8/31/99 Any lead present is 2
												layers deep
V99C5242	School 132	313	313 Exterior		Equipment	Metal	Blue	1.36	0.22	1.2	8/31/99	8/31/99 Any lead present is on the
1,000,000	400	4.40									3)	surface layer
V 99C3Z43	SCH001 132	ر 4	314 Exterior	Playground	Equipment	Metal	Blue	2.07	0.49	9.	8/31/99/	8/31/99 Any lead present is on the
1/00/1	Cohool 122	215			1	N. 1. 1.	= ;	0,0	000	1		
V 33002444	3611001132	010		Dung	Equipment	Metal	Yellow	2.49	0.39	1.7	8/31/99 <i> </i> 	Any lead present is 2 layers deep
V99C5245	School 132	316	316 Exterior	Bench		Wood	Green	0.04	0.05	1.2	8/31/99	8/31/99 Any lead present is on the
	100	1,0		_							S	surface layer
V99C5246	School 132	31/	31 / Exterior	Playground E	Equipment	Metal	Yellow	3.17	0.40	8.	8/31/99/4	8/31/99 Any lead present is 2
1/00/52/17	School 132	210	210 Exterior	Choire		1-1-14	ā	000	1		3	
V 89C3241	SCI 1001135	0 0		Stairs		Metal	Bine	0.20	0.17	2.4	8/31/99/	8/31/99 Any lead present is 2 to 3
V99C5248	School 132	319	319 Exterior	Stairs		Concrete	Rina	0.03	000	77	3/34/00/4	layers deep
							2	9	6.0		8	Surface laver
V99C5249	School 132	320	320 Exterior F	Playground Equipment		Metal	Red	0.10	0.07	1.2	3/31/99 A	8/31/99 Any lead present is on the
0.00		1								- 1	S	surface layer
V89C5Z50	School 132	321	321 Exterior F	Playground Equipment		Metal	Yellow	0.86	0.16	1.5	8/31/99A	Any lead present is on the
V99C5251	School 132	322	322 Exterior	Playeround Equipment	1	Motol	Vallow	7 4 4	1 00	7 0 7	2/04/00	
	20100	770		iaygi odilid L			A 0 0 0	1	88.	<u>o</u> .	5/3 1/99 A	o/31/99 Any lead present is z

Vladivostok Ecology Project: Surface Testing Results

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Date Note		8/31/99 Any lead present is 2 to 3	layers deep	8/31/99 Any lead present is 2 to 3	layers deep	8/31/99 Any lead present is on the	surface layer	9/1/99 Any lead present is on the	surface layer	9/1/99 Any lead present is 2	layers deep	9/1/99 Any lead present is on the	surface layer	9/1/99 Any lead present is on the	surface layer	9/1/99 Any lead present is 2	layers deep	9/1/99 Any lead present is 2	layers deep	9/1/99 Any lead present is on the	surface layer	9/1/99 Any lead present is on the	surface layer	Any lead present is on the	surface layer	9/1/99 Any lead present is on the	surface layer	9/1/99 Any lead present is 2 to 3	layers deep	9/1/99 Any lead present is on the	surface layer	9/1/99 Any lead present is on the	surface layer	9/1/99 Any lead present is 2 to 3	layers deep	9/1/99 Any lead present is on the		9/1/99 Any lead present is 2
Date		8/31/99				8/31/99		9/1/99		9/1/99		9/1/99		9/1/99		9/1/99		9/1/89		9/1/99		9/1/99		9/1/99		9/1/99		9/1/99		9/1/99		9/1/99		9/1/99		9/1/99		9/1/99/
Depth	Index	2.7		2.4		0.1		0.0		1.8	-	1.5		1.6		1.7		1.8		1.2		1.0		1.0		1.2		2.4		1.0		1.0		3.0		4.		9.
	mg/cm ²)	0.47		0.91		90.0		00.00		0.09		0.08		0.0		0.02		0.05		90.0		0.03		0.03		0.25		0.22		0.04		0.17		0.13		90.0		0.15
PbL	(mg/cm ²) (mg/cm ²)	1.85		2.74		0.15		09.0		0.31		0.19		0.05		0.02		0.26		0.08		0.05		0.09		2.14		1.20		0.08		0.01		0.18		0.08		0.86
Color		Green		Beige		Green				Pink	·	Ž Ž		White		Other		Pink		White		White		Pirk		Yellow		Beige		Beige		Green		White		White	i	Z Z
Substrate Color		Metal		Metal		Mood				Plaster	č	Plaster		Plaster		Plaster		Mood		Mood		Mood		Wood		Wood		Wood		Wood		Wood		Wood		Mood		
Feature		Equipment		Equipment		Door	-											Radiator		Casing		Sash		Chair		desk		rocking	norse	rocking	norse	toy, block		Door		Casing		Baseboard Wood
Structure		Playground	ē	Playground		Door				Wall	11-141	wall	147 11	Wall		Wall		Wall		Window		Window		Wall										Door		Door		
XL # Room	1	323 Exterior		324 Exterior		325 Exterior		326 Calibration		327 2-3 yr Play Room	0.20	Scolz-3 yr Friay Koom		329 2-3 yr Play Room		330 2-3 yr Play Room		1 2-3 yr Play Room		332 2-3 yr Play Room		333/2-3 yr Play Room		334 2-3 yr Play Room		335 2-3 yr Play Room		336 2-3 yr Play Koom	0 0	337 Z-3 yr Play Koom		338 2-3 yr Play Room	Т	339 Z-3 yr Play Koom	П	340 2-3 yr Play Room		34 2-5 yr Piay Room
×	\perp		+		+		4		4		+		+		4		+	331	4		- 18	33	1		4		4		4			335	100	333	.	34(\perp	
Site		School 132	0-1-1400	School 132	100	Scn000 132		School 109		School 109	Cobool 400	SCHOOL 103	0-1-1	SCHOOL TUB		School 109		School 109		School 109		School 109		School 109		School 109	1400	School 109	400	School 109		School 109	100	School 109		School 109	Cohool 400	2011001108
Number		V99C5252	0303007	V89C5253	_	V99C5254	\neg	V99C5Z55	\neg	V99C5256	1/00/15257		_	86757664	_	V99C5Z59		V99C5260	Т	V99C5Z61	\neg	V99C5262		V99C5263	- 1	V99C5264	7	V99C5265	00020007		7	V99C5267	_	V99C5Z68	十	V99C5Z69	1,000,5070	

Vladivostok Ecology Project: Surface Testing Results

Number	Site	#TX	XL # Room	Structure	Feature	Substrate Color	Color	PbL	+	Depth	Date	Date Note
								(mg/cm²) (mg/cm²)		Index		
												layers deep
V99C5271	School 109	342	342 2-3 yr Play Room		Baseboard	Wood	Pink	0.54	0.14	1.5	9/1/99	9/1/99 Any lead present is on the
V99C5272	School 109	343	5-6 yr Play Room	Wall		Plaster	White	0.01	0.11	1.6	9/1/99	9/1/99 Any lead present is on the
1/00/5272	Sobool 100	244	C C TO DOOR				-	0	0	1	000	
61760664	SCI 1001 103	244	5-6 yr Piay Koom	Man.		Plaster	Į Ž	0.25	0.29	5.3	9/1/99	Any lead present is 4 to 5 lavers deep
V99C5274	School 109	345	5-6 yr Play Room	Door	Door	Wood	White	0.25	0.10	2.0	9/1/6	9/1/99 Any lead present is 2
V99C5275	School 109	346	346 5-6 vr Dlav Room	Door	Caeina	Mood	White	040	0,0	4	00,470	layers deep
730067	601 1001100	240	3-0 yr riay Nooili	500	Casing		wrile	0.10	0.10	7.7	8/1/8	9/1/99 Any lead present is 2 layers deep
V99C5276	School 109	347	5-6 yr Play Room	Cabinet		Wood	White	0.12	90.0	1.3	9/1/99	9/1/99 Any lead present is on the
100011		0,0										surface layer
17750660	School 109	348	348 5-6 yr Play Koom	Cabinet		Mood	Yellow	0.09	90.0		9/1/99	9/1/99 Any lead present is on the
V99C5278	School 109	340	349 5-6 vr Plav Room		toy block	Mood	a la	0 47	70.0	cc	00/4/00	
		2	o o yi i lay ixoolii		roy, block		e de la composition de la comp	-	0.0	k.3	66/1/6	9/ 1/99 Any lead present is z to 3
V99C5279	School 109	350	350 5-6 yr Play Room		toy, block	Wood	Red	2.04	0.23	1.4	9/1/69	9/1/99 Any lead present is on the
												surface layer
V99C5280	School 109	351	5-6 yr Play Room		toy, block	Wood	Red	0.42	0.11	2.0	9/1/99	Any lead present is 2
70007		0.00										ayers deep
V99C5281	School 109	352	5-6 yr Play Room		Baseboard	Mood	Pink	0.69	0.11	1.7	9/1/99/	9/1/99 Any lead present is 2
0001	007	010										ayers deep
18905282	School 109	353	353 5-6 yr Play Koom	Window	Casing	Mood	White	0.04	0.04	1.0	9/1/99/	9/1/99 Any lead present is on the
V99C5283	School 109	354	354 5-6 vr Play Room	Window	Sach	1000//	White	700	0.07	4	0/4/0	surface layer
			o-o yi i iay ixodiii				ם ב	0.0	0.0	7	8/1/8	Strives Any lead present is on the surface layer
V99C5284	School 109	355	355 4-5 yr Play Room	Wall		Plaster	White	0.03	0.10	5.0	9/1/99	9/1/99 Any lead present is 4 to 5
			T									layers deep
V99C5285	School 109	326	356 4-5 yr Play Room	Wall		Plaster	Yellow	0.18	90.0	1.9	9/1/99	9/1/99 Any lead present is 2
												ayers deep
V99C5286	School 109	32/	357 4-5 yr Play Room		Chair	Wood	Yellow	0.15	0.02	<u>4</u> .	9/1/6	9/1/99 Any lead present is on the
10000001	007	0	i i		ì						S	surface layer
/93CD66/	SC1000108	328	338 4-5 yr Play Koom		Baseboard	Mood	Ked	0.93	0.16	2.0	9/1/99	9/1/99 Any lead present is 2
1/00/15/288	School 100	250	Т				A/L:42	100	77.0	,	00, 17, 0	ayers deep
00707664	SCI 1001105	200	509 4-5 yr Flay Koom	Worldow	Casing	Mood	Wnite	0.05	0.11	7.5	9/1/99/	9/1/99 Any lead present is on the
	-		-				-			-	35	surface layer

Vladivostok Ecology Project: Surface Testing Results

School 109 360 4-5 yr Play Room Door Door Wood White 0.03 Tool 109 Tool 109 School 109 361 4-5 yr Play Room Door Door Wood Green 0.34 0.04 1.0	Number	Site	XL#	XL # Room	Structure	Feature	Substrate Color	Color	Ph	+	Denth		Note
School 109 360 4-5 yr Play Room Door Wood White 0.03 0.33 1.6 School 109 361 4-5 yr Play Room toy, block Wood Green 0.17 0.19 2.0 School 109 362 4-5 yr Play Room toy, block Wood Green 0.17 0.19 2.0 School 109 362 4-5 yr Play Room Wall Plaster White 0.70 0.27 8.3 School 109 364 4-5 yr Play Room Wall Plaster White 0.70 0.27 8.3 School 109 364 4-5 yr Play Room Casing Wood White 0.05 0.11 1.1 School 109 367 4-5 yr Play Room Cabinet Wood White 0.05 0.11 1.1 School 109 371 4-5 yr Play Room Window Casing Wood White 0.05 0.11 1.1 School 109 372 4-5 yr Play Room Cabinet Wood White 0.05 0.11 1.1 School 109									(mg/cm²)	(mg/cm²)	Index		
School 109 361 4-5 yr Play Room toy, block Wood Green 0.34 1.0 1.0 School 109 362 4-5 yr Play Room toy, block Wood Blue 0.17 0.19 2.0 School 109 363 4-5 yr Play Room Wall Plaster White 0.61 0.00 0.0 School 109 364 4-5 yr Play Room Wall Plaster White 0.17 0.05 1.8 School 109 366 4-5 yr Play Room Wall Plaster White 0.17 0.05 1.8 School 109 367 4-5 yr Play Room Casing Wood White 0.02 0.02 1.0 School 109 367 4-5 yr Play Room Window Chair Wood White 0.05 0.05 1.2 School 109 372 4-5 yr Play Room Window Casing Wood White 0.05 0.17 1.1 School 109 372 4-5 yr Play Room Window Casing Wood White 0.05 0.17 1.2	V99C5289		360	4-5 yr Play Room	Door	Door	Wood	White	0.03	0.33			9/1/99 Any lead present is on the
School 109 362 4-5 yr Play Room toy, block Wood Green 0.17 0.19 1.00 School 109 363 4-5 yr Play Room Wall Plaster White 0.17 0.19 2.0 School 109 364 Calibration Wall Plaster White 0.70 0.27 8.3 School 109 364 4-5 yr Play Room Wall Plaster Plnk 0.17 0.05 1.8 School 109 364 4-5 yr Play Room Wall Plaster White 0.17 0.05 1.8 School 109 367 4-5 yr Play Room Casing Wood White 0.02 0.02 1.0 School 109 370 4-5 yr Play Room Window Casing Wood White 0.05 0.1 1.1 School 109 370 4-5 yr Play Room Window Casing Wood White 0.05 0.1 1.1 School 109 372 4-5 yr Play Room Window Casing Wood White 0.04 1.2 School 109	V99C5290	_	361	4-5 vr Play Room		tov block	1000	Coop	0.34	700			surface layer
School 109 362 4-5 yr Play Room toy, block Wood Green 0.17 0.19 2.0 School 109 363 4-5 yr Play Room Wall Ioy, block Wood Blue 0.12 0.11 1.0 School 109 364 Calibration Wall Plaster White 0.70 0.27 8.3 School 109 365 4-5 yr Play Room Wall Plaster Plink 0.17 0.05 1.8 School 109 366 4-5 yr Play Room Wall Baseboard Wood White 0.18 0.33 2.6 School 109 364 4-5 yr Play Room Casing Wood White 0.05 0.19 2.3 School 109 376 4-5 yr Play Room Window Casing Wood White 0.05 0.01 1.0 School 109 374 4-5 yr Play Room Window Casing Wood White 0.05 0.17 1.1 1.1 School 109 374 4-5 yr Play Room Cabinet Wood White 0.05	19902590		9	4-5 yi riay Nooiii		toy, block	0000	i ee	0.34	40.0			Any lead present is on the surface layer
School 109 363 4-5 yr Play Room toy, block Wood Blue 0.12 0.11 1.0 School 109 364 4-5 yr Play Room Wall Plaster White 0.70 0.27 8.3 School 109 365 4-5 yr Play Room Wall Plaster Plink 0.17 0.05 1.8 School 109 366 4-5 yr Play Room Wall Plaster Plink 0.17 0.05 1.8 School 109 366 4-5 yr Play Room Baseboard Wood White 0.18 0.13 2.5 School 109 369 4-5 yr Play Room Chair Wood White 0.09 0.05 1.0 School 109 370 4-5 yr Play Room Window Casing Wood White 0.05 0.01 1.1 School 109 372 4-5 yr Play Room Window Casing Wood Plink 0.05 0.17 1.9 School 109 374 4-5 yr Play Room Window Casing Wood Plink 0.05 0.05 1.2	V99C5291	School 109	362	4-5 yr Play Room		toy, block	Wood	Green	0.17	0.19		9/1/99	Any lead present is 2
School 109 363 4-5 yr Play Room Itoy, block Mood Wood Blue 0.12 0.11 1.0 School 109 364 Calibration School 109 365 4-5 yr Play Room Wall Plaster White 0.70 0.27 8.3 School 109 365 4-5 yr Play Room Wall Plaster P		\neg											layers deep
School 109 364 Calibration Wall Plaster White 0.61 0.00 0.0 School 109 365 4-5 yr Play Room Wall Plaster White 0.70 0.27 8.3 School 109 366 4-5 yr Play Room Door Casing Wood White 0.18 0.33 2.6 School 109 367 4-5 yr Play Room Cabinet Wood White 0.02 0.05 1.0 School 109 370 4-5 yr Play Room Chair Wood White 0.02 0.01 1.1 School 109 370 4-5 yr Play Room Window Sash Wood White 0.06 0.01 1.2 School 109 372 4-5 yr Play Room Window Sash Wood Plink 0.05 0.17 1.9 School 109 375 4-5 yr Play Room Cabinet Wood Blue 0.04 0.05 1.2 School 109 375 4-5 yr Play Room toy, block Wood Green 0.74 0.05 1.0 <t< td=""><td>V99C5292</td><td></td><td>363</td><td>4-5 yr Play Room</td><td></td><td>toy, block</td><td>Mood</td><td>Blue</td><td>0.12</td><td>0.11</td><td>1.0</td><td></td><td>9/1/99 Any lead present is on the</td></t<>	V99C5292		363	4-5 yr Play Room		toy, block	Mood	Blue	0.12	0.11	1.0		9/1/99 Any lead present is on the
School 109 365 4-5 yr Play Room Wall Plaster White 0.70 0.27 8.3 School 109 366 4-5 yr Play Room Wall Plaster Pink 0.17 0.05 1.8 School 109 367 4-5 yr Play Room Door Casing Wood White 0.18 0.33 2.6 School 109 368 4-5 yr Play Room Cabinet Wood White 0.02 0.02 1.0 School 109 370 4-5 yr Play Room Window Casing Wood White 0.05 0.01 1.1 School 109 372 4-5 yr Play Room Window Casing Wood Pink 0.05 0.17 1.9 School 109 374 4-5 yr Play Room Window Sash Wood Pink 0.05 0.17 1.9 School 109 376 4-5 yr Play Room toy, block Wood Green 2.74 0.23 1.3 School 109 377 4-5 yr Play Room toy, block Wood Green 0.71 0.05	V99C5293		364	Calibration					0.61	00.00			9/1/99 Any lead present is on the
School 109 366 4-5 yr Play Room Wall Plaster Pink 0.17 0.05 1.8 School 109 367 4-5 yr Play Room Door Casing Wood White 0.18 0.33 2.6 School 109 367 4-5 yr Play Room Cabinet Wood White 0.02 0.09 0.05 1.0 School 109 370 4-5 yr Play Room Window Casing Wood White 0.05 0.11 1.1 School 109 372 4-5 yr Play Room Window Casing Wood White 0.05 0.17 1.9 School 109 372 4-5 yr Play Room Window Sash Wood Play 0.05 0.17 1.9 School 109 372 4-5 yr Play Room Cabinet Wood Green 0.04 0.05 1.2 School 109 376 4-5 yr Play Room toy, block Wood Green 0.74 0.05 1.0 School 109 376 4-5 yr Play Room Cabinet Wood Green 0.71	V99C5294	$\overline{}$	365	4-5 vr Plav Room	Wall		Plaster	White	0.70	0.07			4
School 109 366 4-5 yr Play Room Wall Plaster Plink 0.17 0.05 1.8 School 109 367 4-5 yr Play Room Door Casing Wood White 0.18 0.33 2.6 School 109 368 4-5 yr Play Room Cabinet Wood White 0.02 0.02 0.02 1.0 School 109 370 4-5 yr Play Room Window Casing Wood White 0.09 0.05 1.2 School 109 372 4-5 yr Play Room Window Casing Wood White 0.06 0.01 1.1 School 109 372 4-5 yr Play Room Cabinet Wood Plink 0.05 0.17 1.9 School 109 375 4-5 yr Play Room toy, block Wood Green 2.74 0.05 1.2 School 109 375 4-5 yr Play Room toy, block Wood Green 0.71 0.05 1.0 School 109 377 4-5 yr Play Room toy, block Wood Blue 0.01 0.01 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>19369</td> <td></td> <td>2</td> <td>0.57</td> <td></td> <td></td> <td>Any read present is 4 to 5 layers deep</td>							19369		2	0.57			Any read present is 4 to 5 layers deep
School 109 367 4-5 yr Play Room Door Casing Wood White 0.18 0.33 2.6 School 109 368 4-5 yr Play Room Cabinet Wood White 0.02 0.02 1.0 School 109 370 4-5 yr Play Room Window Chair Wood White 0.09 0.05 1.2 School 109 372 4-5 yr Play Room Window Casing Wood White 0.05 0.11 1.1 School 109 372 4-5 yr Play Room Window Sash Wood Plink 0.05 0.17 1.9 School 109 374 4-5 yr Play Room toy, block Wood Green 2.74 0.05 1.2 School 109 377 4-5 yr Play Room toy, block Wood Green 0.04 0.05 1.0 School 109 377 4-5 yr Play Room Cabinet toy, block Wood Green 0.71 0.05 1.0 School 109 377 4-5 yr Play Room Cabinet Wood Blue 0.01 <td>V99C5295</td> <td></td> <td>396</td> <td>4-5 yr Play Room</td> <td>Wall</td> <td></td> <td>Plaster</td> <td>Pink</td> <td>0.17</td> <td>0.05</td> <td></td> <td></td> <td>Any lead present is 2</td>	V99C5295		396	4-5 yr Play Room	Wall		Plaster	Pink	0.17	0.05			Any lead present is 2
School 109 367 4-5 yr Play Room Door Casing Wood White 0.18 0.33 2.6 School 109 368 4-5 yr Play Room Cabinet Wood White 0.02 0.02 1.0 School 109 370 4-5 yr Play Room Window Chair Wood White 0.05 0.01 1.2 School 109 372 4-5 yr Play Room Window Sash Wood White 0.05 0.01 1.2 School 109 373 4-5 yr Play Room Cabinet Wood Plink 0.02 0.17 1.9 School 109 375 4-5 yr Play Room Loy, block Wood Blue 0.04 0.05 1.2 School 109 376 4-5 yr Play Room Loy, block Wood Green 2.74 0.23 1.3 School 109 377 4-5 yr Play Room Loy, block Wood Green 0.37 0.05 1.0 School 109 377 4-5 yr Play Room Loy, block Wood Blue 0.41 0.10 2.0	0001		-00										layers deep
School 109 368 4-5 yr Play Room Cabinet Wood White 0.02 0.02 1.0 School 109 370 4-5 yr Play Room Chair Wood White 0.09 0.05 1.2 School 109 370 4-5 yr Play Room Window Casing Wood White 0.05 0.11 1.1 School 109 372 4-5 yr Play Room Window Sash Wood White 0.05 0.17 1.2 School 109 373 4-5 yr Play Room Cabinet toy, block Wood Blue 0.04 0.05 1.2 School 109 376 4-5 yr Play Room toy, block Wood Green 2.74 0.23 1.3 School 109 376 4-5 yr Play Room toy, block Wood Green 2.74 0.23 1.0 School 109 377 4-5 yr Play Room Cabinet Wood Green 0.37 0.05 1.0 School 109 377 4-5 yr Play Room Cabinet Wood Blue 0.41 0.10 2.0	V99C5296		367	4-5 yr Play Room		Casing	Mood	White	0.18	0.33			9/1/99 Any lead present is 2 to 3
School 109 369 4-5 yr Play Room Cabinet Wood White 0.02 0.02 1.0 School 109 370 4-5 yr Play Room Cabinet Wood White 0.09 0.05 1.2 School 109 371 4-5 yr Play Room Window Casing Wood White 0.05 0.11 1.1 School 109 372 4-5 yr Play Room Window Sash Wood White 0.06 0.04 1.2 School 109 373 4-5 yr Play Room toy, block Wood Blue 0.04 0.05 1.1 School 109 375 4-5 yr Play Room toy, block Wood Green 0.04 0.05 1.0 School 109 375 4-5 yr Play Room toy, block Wood Green 0.37 0.05 1.0 School 109 377 4-5 yr Play Room Cabinet Wood Blue 0.41 0.10 2.0 School 109 377 4-5 yr Play Room Wood Blue 0.41 0.10 2.0 School 109	7,000,007	100kg	000	7 6 0.		1	101		00,	0,0			layers deep
School 109 369 4-5 yr Play Room Cabinet Wood White 0.02 0.02 1.0 School 109 370 4-5 yr Play Room Window Chair Wood White 0.05 0.01 1.1 School 109 372 4-5 yr Play Room Window Casing Wood White 0.06 0.04 1.2 School 109 373 4-5 yr Play Room Cabinet Wood Plak 0.02 0.17 1.9 School 109 374-5 yr Play Room toy, block Wood Green 2.74 0.05 1.2 School 109 375 4-5 yr Play Room toy, block Wood Green 2.74 0.05 1.0 School 109 377 4-5 yr Play Room toy, block Wood Green 0.37 0.05 1.0 School 109 377 4-5 yr Play Room Cabinet Wood Green 0.37 0.05 1.0 School 109 377 4-5 yr Play Room Wool Blue 0.41 0.10 2.0 School 109	/83CD88/		200	4-5 yr Flay Room		baseboard	Wood	Brown	1.09	0.19			Any lead present is 2 to 3 layers deep
School 109 370 4-5 yr Play Room Window Chair Wood White 0.09 0.05 1.2 School 109 371 4-5 yr Play Room Window Casing Wood White 0.05 0.11 1.1 School 109 372 4-5 yr Play Room Window Sash Wood White 0.06 0.04 1.2 School 109 373 4-5 yr Play Room Cabinet Wood Blue 0.04 0.05 1.2 School 109 375 4-5 yr Play Room toy, block Wood Green 2.74 0.05 1.0 School 109 376 4-5 yr Play Room Cabinet Wood Green 0.37 0.05 1.0 School 109 377 4-5 yr Play Room Cabinet Wood Green 0.41 0.10 2.0 School 109 378 6-6 yr Play Room Wall Plaster White 0.013 0.25 6.7	V99C5298		369	4-5 yr Play Room	Cabinet		Wood	White	0.02	0.02			9/1/99 Any lead present is on the
School 109 370 4-5 yr Play Room Window Casing Wood White 0.09 0.05 1.2 School 109 372 4-5 yr Play Room Window Casing Wood White 0.06 0.01 1.1 School 109 372 4-5 yr Play Room Window Sash Wood Pink 0.05 0.17 1.9 School 109 374 4-5 yr Play Room toy, block Wood Blue 0.04 0.05 1.2 School 109 375 4-5 yr Play Room toy, block Wood Green 2.74 0.23 1.3 School 109 377 4-5 yr Play Room Cabinet toy, block Wood Green 0.37 0.05 1.0 School 109 377 4-5 yr Play Room Cabinet Wood Blue 0.37 0.05 1.0 School 109 377 4-5 yr Play Room Wall Plaster White 0.41 0.10 2.74	00000	\neg	3	1									surface layer
School 109 371 4-5 yr Play Room Window Casing Wood White 0.05 0.11 1.1 School 109 372 4-5 yr Play Room Window Sash Wood White 0.06 0.04 1.2 School 109 373 4-5 yr Play Room Cabinet Wood Blue 0.04 0.05 1.2 School 109 375 4-5 yr Play Room toy, block Wood Green 2.74 0.23 1.3 School 109 376 4-5 yr Play Room toy, block Wood Green 0.37 0.05 1.0 School 109 377 4-5 yr Play Room Cabinet Wood Blue 0.41 0.10 2.0 School 109 377 4-5 yr Play Room Wall Plaster White 0.03 0.05 1.0	V99C5299		370	4-5 yr Play Room		Chair	Mood	White	0.00	0.02	1.2	9/1/99	9/1/99 Any lead present is on the
School 109 371 4-5 yr Play Room Window Casing Wood White 0.05 0.11 1.1 School 109 372 4-5 yr Play Room Window Sash Wood White 0.06 0.04 1.2 School 109 373 4-5 yr Play Room Cabinet Wood Blue 0.04 0.05 1.2 School 109 375 4-5 yr Play Room toy, block Wood Green 2.74 0.23 1.3 School 109 376 4-5 yr Play Room toy, block Wood Green 0.37 0.05 1.0 School 109 377 4-5 yr Play Room Cabinet Wood Blue 0.41 0.10 2.0 School 109 378 5-6 yr Play Room Wall Plaster White 0.13 0.25 6.7	0000000	007	7.00	T									surface layer
School 109 372 4-5 yr Play Room Window Sash Wood White 0.06 0.04 1.2 School 109 373 4-5 yr Play Room Cabinet Wood Plink 0.02 0.17 1.9 School 109 374 4-5 yr Play Room toy, block Wood Green 2.74 0.03 1.3 School 109 376 4-5 yr Play Room toy, block Wood Green 2.74 0.05 1.0 School 109 377 4-5 yr Play Room Cabinet Wood Blue 0.41 0.10 2.0 School 109 378 5-6 yr Play Room Wall Plaster White 0.13 0.25 6.7	V99C5300	School 109	3/1			Casing	Mood	White	0.05	0.11	-	9/1/99	9/1/99 Any lead present is on the surface laver
School 109 373 4-5 yr Play Room Cabinet Wood Pink 0.02 0.17 1.9 School 109 374 4-5 yr Play Room toy, block Wood Blue 0.04 0.05 1.2 School 109 375 4-5 yr Play Room toy, block Wood Green 2.74 0.23 1.3 School 109 377 4-5 yr Play Room Cabinet Wood Blue 0.41 0.10 2.0 School 109 378 5-6 yr Play Room Wall Plaster White 0.13 0.25 6.7	V99C5301	School 109	372			Sash	Wood	White	90.0	0.04	1.2	9/1/99	9/1/99 Any lead present is on the
School 109 373 4-5 yr Play Room Cabinet Wood Pink 0.02 0.17 1.9 School 109 374 4-5 yr Play Room toy, block Wood Green 2.74 0.05 1.2 School 109 375 4-5 yr Play Room toy, block Wood Green 0.37 0.05 1.0 School 109 377 4-5 yr Play Room Cabinet Wood Blue 0.41 0.10 2.0 School 109 378 5-6 yr Play Room Wall Plaster White 0.13 0.25 6.7				T									surface layer
School 109 374 4-5 yr Play Room toy, block Wood Blue 0.04 0.05 1.2 School 109 375 4-5 yr Play Room toy, block Wood Green 2.74 0.23 1.3 School 109 377 4-5 yr Play Room Cabinet Wood Blue 0.41 0.10 2.0 School 109 378 5-6 yr Play Room Wall Plaster White 0.13 0.25 6.7	V99C5302	School 109	373		Cabinet		Wood	Pink	0.05	0.17	1.9	9/1/99	Any lead present is 2
School 109 374 4-5 yr Play Room toy, block Wood Blue 0.04 0.05 1.2 School 109 375 4-5 yr Play Room toy, block Wood Green 2.74 0.23 1.3 School 109 377 4-5 yr Play Room Cabinet Wood Blue 0.41 0.10 2.0 School 109 378 5-6 yr Play Room Wall Plaster White 0.13 0.25 6.7	0000000	007	110										layers deep
School 109 375 4-5 yr Play Room toy, block Wood Green 2.74 0.23 1.3 School 109 377 4-5 yr Play Room Cabinet Wood Blue 0.41 0.10 2.0 School 109 378 5-6 yr Play Room Wall Plaster White 0.13 0.25 6.7	V99C5303	School 109	374	4-5 yr Play Room		toy, block	pooM	Blue	0.04	0.02	1.2	9/1/99	9/1/99 Any lead present is on the
School 109 375 4-5 yr Play Room toy, block Wood Green 2.74 0.23 1.3 School 109 376 4-5 yr Play Room Cabinet Wood Blue 0.41 0.10 2.0 School 109 378 5-6 yr Play Room Wall Plaster White 0.13 0.25 6.7													surface layer
School 109 376 4-5 yr Play Room Cabinet Wood Green 0.37 0.05 1.0 School 109 377 4-5 yr Play Room Cabinet Wood Blue 0.41 0.10 2.0 School 109 378 5-6 yr Play Room Wall Plaster White 0.13 0.25 6.7	V99C5304		375	4-5 yr Play Room		toy, block	Wood	Green	2.74	0.23	1.3	9/1/99	9/1/99 Any lead present is on the surface laver
School 109 377 4-5 yr Play Room Cabinet Wood Blue 0.41 0.10 2.0 School 109 378 5-6 yr Play Room Wall Plaster White 0.13 0.25 6.7	V99C5305	School 109	376	4-5 yr Play Room		toy, block		Green	0.37	0.05	1.0	9/1/99	9/1/99 Any lead present is on the
School 109 377 4-5 yr Play Room Cabinet Wood Blue 0.41 0.10 2.0 School 109 378 5-6 yr Play Room Wall Plaster White 0.13 0.25 6.7				\exists									surface layer
School 109 378 5-6 yr Play Room Wall Plaster White 0.13 0.25 6.7	V99C5306	School 109	377		Cabinet		Mood	Blue	0.41	0.10	2.0	9/1/99	Any lead present is 2 lavers deep
			378		Wall			White	0.13	0.25	6.7	9/1/99	Any lead present is 4 to 5

Vladivostok Ecology Project: Surface Testing Results

Site		XL#	XL # Room	Structure	Feature	Substrate Color	Color	PbL +		Depth	Date Note	Note	
								(mg/cm ²)	(mg/cm²) (mg/cm²)	Index			
												layers deep	
Sc	School 109	379	379 5-6 yr Play Room	Wall		Plaster	White	0.13	0.25	6.7	9/1/99	9/1/99 Any lead present is 4 to 5	
Scl	School 109	380	380 5-6 yr Play Room	Wall		Plaster	Green	0.16	0.12	2.3	9/1/99	9/1/99 Any lead present is 2 to 3	
Sc	School 109	381	5-6 vr Plav Room	Door	Door	Wood	White	0.10	90 0	17	0/1/00		
5		3	o o yi i iay ixooiii	500			בונים אא	5	00	· ·	66/1/6	Any lead present is z layers deep	
Sc	School 109	382	5-6 yr Play Room	Window	Casing	Wood	White	0.13	0.08	1.7	9/1/69	9/1/99 Any lead present is 2	
Scl	School 109	383	5-6 yr Play Room	Window	Sash	Wood	White	0.16	0.17	2.4	9/1/99	9/1/99 Any lead present is 2 to 3	
Sc	School 109	384	384 5-6 yr Play Room		Chair	Wood	Green	0.29	0.08	2.8	9/1/69	9/1/99 Any lead present is 2 to 3	
Scl	School 109	385	385 5-6 yr Play Room	Cabinet		Wood	Blue	0.65	0.21	4.4	9/1/99	layers deep Any lead present is 4 to 5	
1		8										2	
5	School 109	386		Cabinet	Radiator	Mood	Green	0.15	0.08	1.7	9/1/99/	9/1/99 Any lead present is 2 layers deep	
တွ	School 109	387	387 5-6 yr Play Room		play house	Mood	Yellow	1.30	0.15	1.0	9/1/99	9/1/99 Any lead present is on the	
S	School 109	388	5-6 yr Play Room		shelves	Wood	Yellow	>>5.0	1.00	1.9	9/1/99	9/1/99 Any lead present is 2	
100	School 109	389	3-4 vr Plav Room	Wall		Plaster	Pink	0 11	0.07	17	9/1/00/	0/1/00 Any lead present is 2	
				3			1		0.0	-	1 6611 16		
တ္တ	School 109	390	3-4 yr Play Room	Wall		Plaster	White	0.02	0.07	1.9	9/1/99/	9/1/99 Any lead present is 2	
8	School 109	391	3-4 yr Play Room	Window	Casing	Wood	White	0.12	0.09	2.0	9/1/99	9/1/99 Any lead present is 2	
10	School 109	302	3.4 vr Dlav Room	Window			White.	60.0	700	,	00/4/0	ayers deep	
٦ I	601 10011	760				DOOAA	vvnite	0.03	0.04	0.	9/1/88/1/8	9/1/99/Any lead present is on the surface layer	
ကို	School 109	393	3-4 yr Play Room		Baseboard	Wood	Red	1.48	0.28	1.9	9/1/99	9/1/99 Any lead present is 2	
2	School 109	394	394 3-4 yr Play Room		Chair	Wood	Yellow	0.20	0.08	1.5	9/1/99	9/1/99 Any lead present is on the	
000	School 109	395	395 3-4 yr Play Room	Cabinet		Wood	White	0.08	0.05	1.6	9/1/99	9/1/99 Any lead present is on the	
100	School 109	396	396 3-4 yr Play Room		toy, kitchen	Metal	Blue	0.02	0.05	1.0	9/1/99	9/1/99 Any lead present is on the	
		-			361					1	2	surrace layer	

Vladivostok Ecology Project: Surface Testing Results

	9/1/99 Any lead present is on the surface layer		9/1/99 No lead present	9/1/99 No lead present 9/1/99 Any lead present is 2 to 3	9/1/99 No lead present 9/1/99 Any lead present is 2 to 3 layers deep 9/1/99 Any lead present is on the	9/1/99 No lead present 9/1/99 Any lead present is 2 to 3 1/1/99 Any lead present is on the surface layer 9/1/99 Any lead present is 2	9/1/99 No lead present 9/1/99 Any lead present is 2 to 3 1/1/99 Any lead present is on the 9/1/99 Any lead present is 2 9/1/99 Any lead present is 2 1/1/99 Any lead present is 2	9/1/99 No lead present 9/1/99 Any lead present is 2 to 3 layers deep 9/1/99 Any lead present is on the surface layer 9/1/99 Any lead present is 2 layers deep 9/1/99 Any lead present is 2	9/1/99 No lead present 9/1/99 Any lead present is 2 to 3 1/1/99 Any lead present is on the surface layer 9/1/99 Any lead present is 2 layers deep 1/1/99 Any lead present is 0 the surface layer	9/1/99 No lead present 9/1/99 Any lead present is 2 to 3 layers deep 9/1/99 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1.0 9/1/99 Any lead	Surace	1.0 9/1/99 No lead	3.2 9/1/99 Any lead																										
0.03 1.0					0.36 1.2			1.7	1.7	1.2	1.3	1.2	1.3	2. 7. 1. 0. 1. 0. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	1.5 1.0 1.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	1.2	2. 7. 1. 1. 1. 1. 1. 2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	1.5 1 1	1.5 1.0 1.0 1.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1	1.5 1.0 1.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	1.5 1.5 1.6 1.6 1.6 1.7 1.7 1.8 1.8 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.5 1.6 1.6 1.6 1.6 1.7 1.7 1.8 1.8	1.5 1.5 1.6 1.6 1.6 1.7 1.1 1.6 1.6 1.6 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	2.1 1.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.2 1.2 1.2 1.2 1.2 1.1 1.1 1.2 1.1	1.2 1.2 1.2 1.1 1.1 1.1 1.1 1.1 1.1 1.1	1.1 1.1 1.1 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.1	1.2 1.1 1.1 1.1 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.1
0.10	0.00		0.40	2 12	3	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20 3.20 >>5.0 >>5.0 1.27 1.27	3.20 >>5.0	3.20 3.20 >>5.0 0.40 1.27 1.09	3.20 3.20 >>5.0 1.09 1.09	3.20 3.20 >>5.0 1.09 1.09	3.20 3.20 >>5.0 0.40 1.09 1.01	3.20 3.20 >>5.0 0.40 1.27 1.09 1.10 1.10	3.20 3.20 >>5.0 0.40 1.09 1.01 1.10 1.56	3.20 3.20 >>5.0 0.40 1.09 1.01 1.10 1.56	3.20 3.20 >>5.0 0.40 1.27 1.09 1.10 1.10 0.67	3.20 3.20 >>5.0 0.40 1.09 1.09 1.10 1.10 0.67	3.20 3.20 >>5.0 0.40 1.09 1.01 1.10 0.67 0.04	3.20 3.20 0.40 0.40 1.27 1.09 1.09 1.56 0.04	3.20 3.20 >>5.0 0.40 1.09 1.10 1.10 0.67 0.04	3.20 3.20 5.00 0.40 1.01 1.01 1.10 0.04 0.04 0.04	3.20 3.20 >>5.0 0.40 1.09 1.01 1.01 1.56 0.04 0.04	3.20 3.20 >>5.0 0.40 1.09 1.09 1.10 0.04 0.04 0.04 0.04
Red Grev	Grev	10.00	Green	Yellow		Yellow	Yellow	Yellow	Yellow	Yellow Yellow Green	Yellow Yellow Green	Yellow Yellow Green	Yellow Green Green	Yellow Yellow Green Yellow	Yellow Green Green Yellow Green	Yellow Green Green Yellow Green	Yellow Green Green Green Yellow Yellow	Yellow Green Green Green Yellow Yellow Blue	Yellow Green Green Yellow Green Green Blue	Yellow Green Green Yellow Green Yellow Blue	Yellow Green Green Green Yellow Blue Blue	Yellow Green Green Yellow Green Yellow Blue Blue	Yellow Green Green Yellow Green Yellow Blue Blue	Yellow Green Green Green Yellow Blue Blue Red Green	Yellow Green Green Green Green A'ellow Blue Blue Blue Green Blue	Yellow Green Green Green Yellow Green Blue Blue Blue Blue	Yellow Green Green Green Green Green Ked Green Blue Blue Blue Blue	Yellow Green Green Green Green A'ellow Blue Blue Blue Blue Blue Blue	Yellow Green Green Green Green Green Blue Blue Blue Blue Aed Green Ayellow Yellow
			Metal	ıt Metal			t iwetai							Metal Metal Metal Metal	Metal Metal Metal Metal Metal	Metal Metal Metal Metal Metal	Metal Metal Metal Metal Metal Wood	Metal Metal Metal Metal Wood	Metal Metal Metal Metal Metal Wood	Metal Metal Metal Metal Metal Wood Wood	Metal Metal Metal Metal Wood Wood	Metal Metal Metal Metal Wood Wood Wood	Metal Metal Metal Mood Wood Wood Wood	Metal Metal Metal Metal Wood Wood Wood Wood	Metal Metal Metal Metal Wood Wood Wood Wood Wood	Metal Metal Metal Metal Wood Wood Wood Wood Wood	Metal Metal Metal Metal Wood Wood Wood Wood Wood Wood Wood	Metal Metal Metal Metal Wood Wood Wood Wood Wood Wood Wood	Metal Metal Metal Metal Wood Wood Wood Wood Wood Wood Wood Woo
toy, horse	tov. horse		indow Sash-Ext	Playground Equipment	Playground Equipment			Playground Equipment			3		70																
3-4 yr Play Room 3-4 yr Play Room Exterior Window																													
397 3-4 yr Play Room 398 3-4 yr Play Room 399 Exterior	398 3-4 yr Pla 399 Exterior	399 Exterior		400 Exterior	401 Exterior		402 Exterior			403 Exterior	403 Exterior	403 Exterior 404 Exterior	403 Exterior 404 Exterior 405 Exterior	403 Exterior 404 Exterior 405 Exterior	403 Exterior 404 Exterior 405 Exterior 406 Exterior	403 Exterior 404 Exterior 405 Exterior 406 Exterior	403 Exterior 404 Exterior 405 Exterior 406 Exterior	403 Exterior 404 Exterior 405 Exterior 406 Exterior 407 Exterior	403 Exterior 404 Exterior 405 Exterior 406 Exterior 407 Exterior	403 Exterior 404 Exterior 405 Exterior 406 Exterior 407 Exterior 408 Exterior	403 Exterior 404 Exterior 405 Exterior 406 Exterior 407 Exterior 409 Exterior	403 Exterior 404 Exterior 405 Exterior 407 Exterior 408 Exterior 409 Exterior 410 Exterior	403 Exterior 404 Exterior 405 Exterior 407 Exterior 408 Exterior 409 Exterior 410 Exterior	403 Exterior 404 Exterior 406 Exterior 407 Exterior 408 Exterior 409 Exterior 410 Exterior 411 Exterior	403 Exterior 404 Exterior 405 Exterior 407 Exterior 408 Exterior 409 Exterior 410 Exterior 411 Exterior	403 Exterior 404 Exterior 405 Exterior 407 Exterior 409 Exterior 410 Exterior 411 Exterior 412 Exterior	403 Exterior 404 Exterior 406 Exterior 407 Exterior 409 Exterior 410 Exterior 411 Exterior 413 Exterior	403 Exterior 404 Exterior 405 Exterior 406 Exterior 409 Exterior 410 Exterior 411 Exterior 413 Exterior	403 Exterior 404 Exterior 406 Exterior 407 Exterior 409 Exterior 410 Exterior 411 Exterior 413 Exterior 413 Exterior
School 109 School 109 School 109	School 109 School 109	School 109	Cohool 100	501 1001100	School 109		School 109			School 109	School 109 School 109	School 109 School 109	School 109 School 109 School 109	School 109 School 109 School 109	School 109 School 109 School 109 School 109	School 109 School 109 School 109	School 109 School 109 School 109 School 109 School 109	School 109 School 109 School 109 School 109 School 109	School 109 School 109 School 109 School 109 School 109 School 109	School 109 School 109 School 109 School 109 School 109 School 109	School 109 School 109 School 109 School 109 School 109 School 109	School 109	School 109	School 109	School 109	School 109	School 109	School 109	School 109
	\neg			V99C5329 S	V99C5330 S		V99C5331 S		Т																				

Vladivostok Ecology Project: Surface Testing Results

Number	Site	XL#	XL # Room	Structure	Feature	Substrate Color	Color	PbL (ma/cm²)	+ (ma/cm²)	Depth	Date	Date Note
V99C5345	School 109	416	416 Exterior	Playground	Equipment	Wood	Red	0.69	0.17		9/1/99	9/1/99 Any lead present is 2
V99C5346	School 109	417	417 Exterior	Playground	Equipment	Wood	Blue	0.14	0.08	1.8	9/1/99	9/1/99 Any lead present is 2
V99C5347	School 109	418	418 Exterior	Diavaround		Motol	Dirio	20.0		Ĺ	00,410	layers deep
		-		ı laygı odı ıd	daipinein	ואופוש	enia	7.20	0.44	2.2	8/1/8	9/1/99/Any lead present is 4 to 5 layers deep
V99C5348	School 109	419	419 Calibration					0.63	00.00	0.0	9/1/99	9/1/99 Any lead present is on the
V99C5349	School 162	420	420 2-3 yr Play Room	Wall		Plaster	White	00.0	0.04	10	0/1/00	Surface layer
V99C5350	School 162	421		Wall		Plaster	Beige	0.17	0.08	1.3	9/1/99	9/1/99 Any lead present is on the
1		3										surface layer
V99C5351	School 162	422		Door	Door	Mood	White	0.04	90.0	1.	9/1/99	9/1/99 Any lead present is on the
V99C5352	School 162	423	423 2-3 yr Play Room	Door	Casing	Wood	White	0.08	0.17	2.0	9/1/99	9/1/99 Any lead present is 2
		, 0,	i		1							layers deep
V89C5353	School 162	424	424 2-3 yr Play Koom		Baseboard	Mood	Beige	0.03	0.02	1.0	9/1/99	9/1/99 Any lead present is on the
V99C5354	School 162	425	425 2-3 yr Play Room	Window	Casing	Wood	White	90.0	0.07	1.3	9/1/99	9/1/99 Any lead present is on the
											3,	surface layer
V99C5355	School 162	426	426 2-3 yr Play Room	Window	Sash	Wood	White	0.05	0.05	1.0	9/1/99	9/1/99 Any lead present is on the
V99C5356	School 162	127	2-3 vr Dlav Boom	Cabinot		10,000	10/L:+C	77	000	,	00/ 7/0	surface layer
	201 1001100	175		Cabillet			vvnite	0.11	0.08	4.	9/1/99/	9/1/99 Any lead present is on the surface layer
V99C5357	School 162	428	428 2-3 yr Play Room		toy, block	Wood	Yellow	0.78	0.15	1:1	9/1/99 /	9/1/99 Any lead present is on the
	1400	100			T						J)	surface layer
V 99C5538 V	201 100U2S	429	429 2-3 yr Play Koom		toy, block	Mood	Green	1.72	0.23	2.3	9/1/99	9/1/99 Any lead present is 2 to 3
V99C5359	School 162	430	430 2-3 yr Play Room		toy, block	Wood	Yellow	0.59	0.08	10	9/1/99/	Any lead present is on the
)	9)	surface layer
V99C5360 S	School 162	431	431 2-3 yr Play Room		toy, block	Wood	Yellow	2.21	0.35	2.0	9/1/99	9/1/99 Any lead present is 2
		100	1									layers deep
V89C5361	School 162	432	432 2-3 yr Play Room		toy, block	Mood	Red	90.0	90.0	1.0	9/1/99	9/1/99 Any lead present is on the
V99C5362 S	School 162	433	433 2-3 vr Plav Room		tov. block	Wood	Vellow	0.39	0.04	7	0/1/00 /	0/1/00 Any load proport in on the
\neg								9	2.0	2:	S	surface layer
V99C5363 S	School 162	434	434 2-3 yr Play Room		toy, block	Mood	Yellow	0.53	0.10	1.0	9/1/99 /	9/1/99 Any lead present is on the
										_	S	surface layer

Vladivostok Ecology Project: Surface Testing Results

Number	Site	XL#	XL #Room	Structure	Feature	Substrate Color	Color	PbL	+	Depth	Date	Date Note
							-	(mg/cm²) (mg/cm²)	(mg/cm²)	Index		
V99C5364	School 162	436	435 Exterior	Playground	Equipment	Metal	Yellow	1.98	0.25	1.2		9/1/99 Any lead present is on the
1001007	007	3	L	ī								surface layer
V99C5365	School 162	430	436 Exterior	Playground	Equipment	Metal	Blue	0.27	0.00	1.	9/1/99	9/1/99 Any lead present is on the
1/00/5266	Cohool 160	127	100000	0.000	1	N. A. L.	-	000	000			surface layer
0000066	201 1001125	45,	437 Exterior	Playground	Eduipment	Metal	Ked	0.86	0.0	1.1	9/1/99	
1,000 5257	Cohood 460	420		ī								surface layer
/05CD66/	201 100 107	438	438 Exterior	Playground	Equipment	Metal	Green	3.64	0.33	1.6	9/1/99	9/1/99 Any lead present is on the
V99C5368	School 162	439	439 Exterior	Playground	Equipment	Metal	Orange	0.84	0.06	1.0	9/1/99	9/1/99 Any lead present is on the
												surface layer
V99C5369	School 162	440	440 Exterior	Playground	Equipment	Mood	Blue	0.04	0.04	1.1	9/1/99	
010000					\neg							surface layer
V89C53/U	School 162	441	441 Exterior	Playground	Equipment	Metal	Pink	90.0	90.0	1.3	9/1/99	9/1/99 Any lead present is on the
1,000,1				i								surface layer
V99C53/1	School 162	447	442 Exterior	Playground	Equipment	Wood	Red	0.13	0.0	0.1	9/1/99	9/1/99 Any lead present is on the
010001					Т							surface layer
V99C5372	School 162	443	443 Exterior	Playground	Equipment	Mood	Green	0.08	0.03	1.0	9/1/99	9/1/99 Any lead present is on the
					\neg							surface layer
V99C53/3	School 162	444	444 Exterior	Playground	Equipment	Mood	Green	>>5.0	1.00	8.	9/1/99	9/1/99 Any lead present is 2
10000					\neg							layers deep
V99C53/4	School 162	445	445 Exterior	Playground	Equipment	Metal	Yellow	>>5.0	1.79	4.	9/1/99	9/1/99 Any lead present is on the
	00,											surface layer
V99C5375	School 162	446	446 Exterior	Playground	Equipment	Metal	Yellow	1.87	0.29	1.2	9/1/99	9/1/99 Any lead present is on the
1 "					Т							surface layer
V99C5376	School 162	447	447 Exterior	Playground	Equipment	Metal	Green	1.53	0.16	1.7	9/1/99	9/1/99 Any lead present is on the
Т	007	1077			Т							surface layer
V88C53//	School 162	448	448 Exterior	Playground	Equipment	Metal	Yellow	1.02	0.19	- -	9/1/99	9/1/99 Any lead present is on the
		9										surface layer
V99C5378	Scnool 162	449	449 Exterior	Rench		Mood	Yellow	1.00	0.14	1.2	9/1/99	9/1/99 Any lead present is on the
_	0-1-0	450										surface layer
8/500888	201 loouse	450	450 Exterior	Rench		Mood	Green	1.19	0.16	1.2	9/1/99	9/1/99 Any lead present is on the
\neg	1.00	727	1									surface layer
V89C3380	201 JOOU25	104	451 Exterior		Fence	Metal	Green	0.80	0.17	9.1	9/1/99	9/1/99 Any lead present is on the
	1400											surface layer
18803881	SCHOOL 162	425	452 EXTERIOR		Lence	Metal	Blue	0.37	0.24	1.6	9/1/99	9/1/99 Any lead present is on the
V99C5382 School 162	School 162	453	453 Exterior	Staire		Concrete	Vollow	0 44	0.40	7	0/4/00	Surface layer
						7	10110	1.1.2	25.5	2	2011	a risspany read present is z

Vladivostok Ecology Project: Surface Testing Results

Number	Site	XL#	XL # Room	Structure	Feature	Substrate Color	Color	PbL +	+	Depth		Date Note
								(mg/cm-)	(mg/cm-) (mg/cm-)	Index		and door
V99C5383	School 162	454	3-4 vr Plav Room	Wall		Concrete	White	000	0.08	10	9/1/00	0/1/00 No lead present
V99C5384	School 162	455	455 3-4 yr Play Room	Wall		Concrete	Blue	0.31			9/1/99	9/1/99 Anv lead present is 2 to 3
												layers deep
V99C5385	School 162	455	3-4 yr Play Room	Window	Casing	Concrete	White	0.31	0.20	3.4	9/1/99	9/1/99 Any lead present is 2 to 3
		-										layers deep
V99C5386	School 162	457	3-4 yr Play Room	Window	Sash	Concrete	White	0.03	0.04	1.0	9/1/99	9/1/99 Any lead present is on the
78675387	School 162	150	3.4 vr Dlay Doom	Window	Docoboord	10000	Drown		400	*	00,470	surface layer
A SOCCOED A	201 1001105	200	3-4 yi riay noolii	MODILIAN	paseboard	0000	Brown	60.0	0.04	0.	9/1/88	9/1/99 Any lead present is on the
V99C5388	School 162	459	3-4 yr Play Room	Bench		Wood	Orange	0.04	0.02	1.0	9/1/99	Any lead present is on the
											-	surface layer
V99C5389	School 162	460	460 3-4 yr Play Room	Door	Door	Wood	White	0.21	0.22	2.9	9/1/99	9/1/99 Any lead present is 2 to 3
000000	100	70,										layers deep
V89C5390	School 162	461	461 3-4 yr Play Room		toy, block	Mood	Green	0.17	20.0	1.0	9/1/99	9/1/99 Any lead present is on the
,000,000,1		00,										surface layer
V99C5391	School 162	462	462 3-4 yr Play Room		toy, block	Wood	Red	0.01	90.0	1.0	9/1/99,	9/1/99 Any lead present is on the
0000000	100	00,										surtace layer
V89C539Z	School 162	463	3-4 yr Play Room		toy, block	Mood	Red	0.01	0.02	1.0	9/1/99/	9/1/99 Any lead present is on the
0000000		,	\neg								57	surface layer
V89C5393	School 162	464	3-4 yr Play Koom	Cabinet		Mood	Red	0.05	90.0	1.0	9/1/99/	9/1/99 Any lead present is on the
_			Т								3,	surface layer
	School 162	465	\neg	Wall			White	0.00	0.01	1.0	9/1/99	9/1/99 No lead present
V99C5395	School 162	466	466 3-4 yr Play Room	Wall		Plaster	Blue	0.04	0.05	1.0	9/1/99	9/1/99 Any lead present is on the
\neg			T								3,	surface layer
V99C5396	School 162	46/	3-4 yr Play Room	Window	Casing	Plaster	White	0.03	0.05	1.0	9/1/99/	9/1/99 Any lead present is on the
\top	0-L1400	,	Т		-						3)	surface layer
/85C286/	School 162	468	468 3-4 yr Piay Koom	Mobuly	Sash	Plaster	White	0.19	0.55	4.7	9/1/99	9/1/99 Any lead present is 4 to 5
V00C5308	School 162	160	460 3 4 yr Dlay Doom				1	C	0.00	,	- 00,770	layers deep
	301 1001 105	409	אר או רופט א Piay Piay אייס		toy, plock	DOOM	creen	7.00	0.27	7.7	9/1/99/	9/1/99 Any lead present is on the
\top	O. L 1 400	,007			T						9)	surface layer
6800066	SCH001 102	409	409 3-4 yr Play Koom		toy, block	Mood	Green	2.66	0.27	1.2	9/1/99/	9/1/99 Any lead present is on the
V99C5400	School 162	469	469 3-4 vr Play Room		tov block	Wood	Rad	2 66	70.0	10	0/1/00	Navi lood agoont is on the
	20100	2	The lay room				nevi	2.00	0.27	7	8/1/8	9/ 1/99 Any lead present is on the surface layer
V99C5401	School 162	472	3-4 yr Play Room		toy, block	Wood	Red	0.01	0.01	1.0	9/1/99	9/1/99 Any lead present is on the
											S	surface layer

Vladivostok Ecology Project: Surface Testing Results

Number	Site	*L	XL # Room	Structure	Feature	Substrate Color	Color	PbL +	PbL +	Depth	Date Note	Vote
V99C5402	School 162	473	3-4 yr Play Room		toy, block	Wood	Yellow	0.41	0.11	1.0	9/1/99/	9/1/99 Any lead present is on the
V99C5403	School 162	474	474 3-4 yr Play Room	Cabinet		Wood	Yellow	0.54	0.11	1.0	9/1/99/	9/1/99 Any lead present is on the
V99C5404	School 162	475	475 3-4 yr Play Room	Cabinet		Wood	Yellow	0.85	0.19	1.0	9/1/99/	9/1/99 Any lead present is on the
V99C5405	School 162	476	476 3-4 yr Play Room	Cabinet		Wood	Yellow	0.79	0.18	1.0	9/1/99	9/1/99 Any lead present is on the
V99C5406	School 162	477	3-4 yr Play Room	Cabinet		Wood	Orange	1.12	0.16	1.0	9/1/99	9/1/99 Any lead present is on the
V99C5407	School 162	478	478 3-4 yr Play Room		Baseboard	Wood	Yellow	0.30	0.07	1.0	9/1/99	9/1/99 Any lead present is on the
V99C5408	School 162	479	479 3-4 yr Play Room	Bench		Wood	Yellow	0.69	0.08	1.0	9/1/99	9/1/99 Any lead present is on the
V99C5409	School 162	480	480 3-4 yr Play Room	Window	Casing	Wood	White	0.05	0.09	1.2	9/1/99	9/1/99 Any lead present is on the
V99C5410	School 162	481	481 3-4 yr Play Room	Window	Sash	Wood	White	0.10	0.11	1.8	9/1/99	9/1/99 Any lead present is 2
V99C5411	School 162	482	482 3-4 yr Play Room	Wall		Plaster	White	0.00	0.11	1.0	9/1/99	9/1/99 No lead present
V99C5412	School 162	483	483 3-4 yr Play Room	Wall		Plaster	Blue	0.15	0.16	2.3	9/1/99	9/1/99 Any lead present is 2 to 3
V99C5413	School 162	484	3-4 yr Play Room		toy, block	Wood	Green	0.37	0.15	1.0	9/1/99	9/1/99 Any lead present is on the
V99C5414	School 162	485	3-4 yr Play Room		toy, block	Wood	Green	2.40	0.32	1.2	9/1/99	9/1/99 Any lead present is on the
V99C5415	School 162	486	486 3-4 yr Play Room		toy, block	Wood	Red	0.18	90.0	1.0	9/1/99	9/1/99 Any lead present is on the
V99C5416	School 162	487	487 3-4 yr Play Room		toy, block	Wood	Blue	0.03	0.11	1.0	9/1/99	9/1/99 Any lead present is on the
V99C5417	School 162	487	487 3-4 yr Play Room		toy, block	Wood	Yellow	0.03	0.11	1.0	9/1/99 A	9/1/99 Any lead present is on the
V99C5418	School 162	489	489 3-4 yr Play Room		toy, block	Mood	Yellow	0.25	0.16	1.2	9/1/99 A	9/1/99 Any lead present is on the surface laver
V99C5419	School 162	489	489 3-4 yr Play Room		toy, block	Mood	Yellow	0.25	0.16	1.2	9/1/99 A	9/1/99 Any lead present is on the surface laver
V99C5420	School 162	491	3-4 yr Play Room		toy, block	Wood	Green	1.24	0.18	1.1	9/1/99 A	9/1/99 Any lead present is on the surface layer

Vladivostok Ecology Project: Surface Testing Results

Number	Site	XL#	XL # Room	Structure	Feature	Substrate Color	Color	PbL	+	Depth	L	Date Note
								(mg/cm ²)	(mg/cm²) (mg/cm²)	Index		
V99C5421	School 162	492	3-4 yr Play Room		toy, block		Green	00.0	0.15	1.0		9/1/99 No lead present
V99C5422	School 162	493	493 5-6 yr Play Room	Wall		Plaster	White	00.0	0.08	1.0		9/1/99 No lead present
V99C5423	School 162	494	494 5-6 yr Play Room	Wali		Plaster	Green	0.04	0.19	1.7		9/1/99 Any lead present is 2
707.10007		10,										layers deep
V99C5424	School 162	495	5-6 yr Play Room		toy, block	Mood	Yellow	2.09	0.30	- -		9/1/99 Any lead present is on the
												surface layer
V99C5425	School 162	496	496 5-6 yr Play Room		toy, block	Wood	Green	1.30	0.20	1:	9/1/99	9/1/99 Any lead present is on the
												surface layer
V99C5426	School 162	497	5-6 yr Play Room		toy, block	Mood	Green	1.23	0.35	1.7		9/1/99 Any lead present is 2
V99C5427	School 162	498	498 5-6 vr Plav Room		tov block	Wood	Rlie	0.00	0.07	10	0/1/00	Any load process is an the
								10:0	2			Surface layer
V99C5428	School 162	499	499 5-6 yr Play Room		toy, block	Wood	Red	0.07	0.11	1.4		9/1/99 Any lead present is on the
												surface layer
V99C5429	School 162	200	500 5-6 yr Play Room		toy, block	Wood	Yellow	1.80	0.27	1.1	9/1/99	9/1/99 Any lead present is on the
												surface layer
V99C5430	School 162	501	501 5-6 yr Play Room	Cabinet		Wood	White	0.04	0.02	1.0	9/1/99	9/1/99 Any lead present is on the
												surface layer
V99C5431	School 162	205	5-6 yr Play Room		Baseboard	Wood	Brown	0.16	0.0	1.0	9/1/99	9/1/99 Any lead present is on the
												surface layer
V99C5432	School 141	503	503 Calibration					09.0	00.00	0.0	9/1/6	9/1/99 Any lead present is on the
			Т									surface layer
\neg	School 141	504	T	Wall		Plaster	White	0.00	0.01	1.3	9/1/99	9/1/99 No lead present
V99C5434	School 141	505	505 2-3 yr Play Room	Wall		Plaster	Green	0.08	0.11	2.1	9/1/99	9/1/99 Any lead present is 2
\neg												layers deep
V99C5435	School 141	909	506 2-3 yr Play Room	Window	Casing	Wood	White	0.16	0.16	3.5	9/1/99	9/1/99 Any lead present is 2 to 3
\neg												layers deep
V99C5436	School 141	204	2-3 yr Play Room	Window	Sash	Wood	White	0.11	60.0	2.2	9/1/99	9/1/99 Any lead present is 2
\neg			T									layers deep
V99C5437	School 141	208	508 2-3 yr Play Room	Door	Door	Wood	White	0.11	60.0	6.1	9/1/99	9/1/99 Any lead present is 2
\neg					- 1							layers deep
V99C5438	School 141	209	509 2-3 yr Play Room		Baseboard	Wood	Brown	0.32	0.14	2.2	9/1/99	9/1/99 Any lead present is 2
\neg												layers deep
V99C5439	School 141	510	2-3 yr Play Room		rocking	Mood	Brown	1.14	0.20	1.7	9/1/99	9/1/99 Any lead present is 2
1/00/2440	Cobool 444	177	S S S S S S S S S S S S S S S S S S S					000	000		00,770	layers deep
	SCH001 141	0	2-3 yr Play Koom		rocking horse	DOOAA	Green	0.28	0.09	1.3	9/1/99	9/1/99 Any lead present is on the surface layer

Vladivostok Ecology Project: Surface Testing Results

Number	Site	# X	XL # Room	Structure	Feature	Substrate Color	Color	Phl	+	Donth	Date	Date Note
,									(mg/cm²)	Index		
V99C5441	School 141	512	512 2-3 yr Play Room		rocking	Wood	White	0.03	0.07	1.1	9/1/99	9/1/99 Any lead present is on the
					horse		-					surface layer
V99C5442	School 141	513	513 2-3 yr Play Room		snq	Mood	Yellow	1.01	0.14	-	9/1/99	9/1/99 Any lead present is on the
V99C5443	School 141	514	2-3 vr Play Room		Sild	Wood	Black	0.03	0.07	10	0/1/00	0/1/00 Any lood procest in an the
		5			2		No.	0.0	0.0	2.	5/ 1/35	surface layer
V99C5444	School 141	515	2-3 yr Play Room		Chair	Mood	Blue	0.07	0.13	2.1	9/1/99	9/1/99 Any lead present is 2
1,000,144	77.7	17.0	i c		2							layers deep
V99C5445	School 141	516	516 Z-3 yr Play Koom	Cabinet	Shelf	Mood	White	0.08	0.08	1.6	9/1/99	9/1/99 Any lead present is on the surface layer
V99C5446	School 141	517	517 2-3 yr Play Room	Cabinet		Wood	White	0.07	0.14	2.4	9/1/99	
VOOCE 447	0-1-1444	1						0				layers deep
V99C5447	Scnool 141	218	Т	Cabinet		Mood	Ked	0.00	0.01	1.0	9/1/99	9/1/99 No lead present
V99C5448	School 141	519	Т	Wall		Plaster	White	00.00	0.07	7.	9/1/99	9/1/99 No lead present
V99C5449	School 141	520	520 2-3 yr Play Room	Wall		Plaster	Blue	0.02	0.11	2.5	9/1/99	9/1/99 Any lead present is 2 to 3
0.77		1										layers deep
V99C5450	School 141	521	521 2-3 yr Play Room	Wall	Baseboard	Mood	Orange	1.36	0.28	2.1	9/1/99	9/1/99 Any lead present is 2
77770007	1 4 4 4	2					:	0				layers deep
	School 141	275	522 2-3 yr Play Room		toy, block	Wood	Yellow	0.00	0.01	1.0	9/1/99	9/1/99 No lead present
Т	School 141	523	523 2-3 yr Play Room		toy, block	Wood	Red	0.00	0.13	1.0	9/1/99	9/1/99 No lead present
V99C5453	School 141	524	524 2-3 yr Play Room		toy, block	Wood	Yellow	0.28	0.20	1.0	9/1/99	9/1/99 Any lead present is on the
												surface layer
V99C5454	School 141	525	2-3 yr Play Room	Wall	Chair	Mood	Blue	0.07	0.26	2.1	9/1/99	9/1/99 Any lead present is 2
	Cohool 444	202			4	70/		00,	0,0	,	001110	layers deep
V 99C 5455	SCHOOL 141	070	526 2-3 yr Fiay Koom		toy, truck	Mood	Orange	1.30	0.18	7.7	9/1/99	9/1/99 Any lead present is on the surface laver
V99C5456	School 141	527	527 2-3 yr Play Room		rocking	Wood	Yellow	3.27	0.53	1.6	9/1/99	9/1/99 Any lead present is on the
\neg					horse							surface layer
V99C5457	School 141	528	528 2-3 yr Play Room		toy, block	Wood	Red	0.53	0.25	2.6	9/1/99	9/1/99 Any lead present is 2 to 3
V99C5458	School 141	529	529 2-3 yr Play Room	Window	Casing	Wood	White	0.13	0.10	2.2	9/1/99	9/1/99 Any lead present is 2
												layers deep
V99C5459	School 141	530	530 2-3 yr Play Room	Window	Sash	Wood	White	0.12	0.10	2.5	9/1/99	9/1/99 Any lead present is 2 to 3
		3										layers deep
	School 141	531	3 yr Play Room	Floor			White	0.00	0.01	1.0	9/1/99	9/1/99 No lead present
V99C5461	School 141	537	532 3 yr Play Room	Wall		Plaster	Green	0.17	0.14	3.1	9/1/99	9/1/99/Any lead present is 2 to 3
												layers deep

Vladivostok Ecology Project: Surface Testing Results

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Date Note		9/1/99 Any lead present is on the	surrace layer	9/1/99/Any lead present is on the	surface layer	Any lead present is on the	9/1/99 Any lead present is on the	surface layer	9/1/99 Any lead present is on the	surface layer	9/1/99 Any lead present is on the	9/1/99 Any lead present is on the	surface laver	9/1/99 Any lead present is 4 to	layers deep	9/1/99 Any lead present is 4 to 5	layers deep	9/1/99 Any lead present is on the	surface layer	9/1/99 Any lead present is on the	surface layer	9/1/99 Any lead present is on the	surface layer		surface layer	9/1/99 Any lead present is 2	layers deep	9/1/99 Any lead present is on the	9/1/99/Any lead present is on the	surface layer	9/1/99 Any lead present is on the	surface layer	9/1/99 No lead present	9/1/99 Any lead present is on the	surface layer
						66/1/6					9/1/99	9/1/00		9/1/6		9/1/6		9/1/99		9/1/99		9/1/99		9/1/69		9/1/99	000	9/1/99	9/1/99		9/1/99		9/1/99	9/1/99	
Depth	Index	1.4		0.1	4.4	1.4	1.5		1.3			14		5.3		5.5		1.3		1.0		1.3		1.3		1.7		0.	1.0		1.0		1.0	1.7	
+	(mg/cm ²)	0.16	0.40	0.10	0.47	0.1.	0.18		0.15	000	0.29	0.15		0.46		0.20		0.25		0.05		0.13		0.13		0.10	,	0.17	0.11		0.19		0.01	0.27	
PbL	(mg/cm ²) (mg/cm ²)	1.50	000	60.0	300	0.00	1.07		0.10	0	0.0%	0 0		0.23		0.07		0.10		0.01		0.85		0.85		0.07	0	0.33	0.19		0.01		0.00	1.54	
Color		Orange	Vellani	Lellow	2002	פופפון	Blue		Red		Pine	White		White		White		White		Other		Orange		Orange		White		Peige	Tan		Red		Yellow	Yellow	
Substrate Color		Wood	10/00	0000	Mond	0000	Wood		Wood	10/00	0000	Wood		Mood		Wood		Wood		Plaster		Wood		Mood		Mood	T	DOOM	Wood		Wood			Wood	
Feature		Baseboard	Joold wot	loy, block	Joold you	toy, plock	toy, block		toy, block	toold red	toy, block	Casing)	Sash		toy, block						Baseboard	- 1	Baseboard		Casing					toy, block			toy, block	
Structure												Window		Window				Cabinet		Wall		Wall		Wall		Window	1000	Cabinet	Cabinet					<u>+-</u>	
XL # Room		533 3 yr Play Room	534 3 vr Dlav Boom	a yi riay iyodiii	535 3 Vr Play Room	o yı ı lay Noolli	6 3 yr Play Room		3 yr Play Room	2 yr Dlay Doom	Sools yi riay Nooiii	539 3 yr Play Room		540 3 yr Play Room		541 3 yr Play Room		3 yr Play Room		543 4 yr Play Room		544 4 yr Play Room	i	544 4 yr Play Room		546 4 yr Play Koom	A vir Dlove Doom	347 4 yr Flay Roolli	548 4 yr Play Room		549 4 yr Play Room		550 4 yr Play Room	551 4 yr Play Room	
χĽ	-		+		\vdash		536	_	537	+		+	\dashv			541		545	1	543	-	544		544	7	240	547	40	548		549	1	220	551	
Site		School 141	School 141		School 141		School 141		School 141	School 141	201001	School 141		School 141		School 141		School 141	0-1	SCN001 141		School 141		School 141	0.4.4	SCN001 141	Cohool 141	Scilod 141	School 141		School 141		School 141	School 141	
Number	1000	V99C5462	V99C5463	200	V99C5464		V99C5465		V99C5466	V99C5467	7010067	V99C5468		V99C5469		V99C5470		V99C5471		V89C5472		V99C5473	_	V99C5474	1,000,1475		V00C5476		V99C5477		V99C5478		\neg	V99C5480	

Vladivostok Ecology Project: Surface Testing Results

Number	Site	XL#	XL #Room	Structure	Feature	Substrate Color	Color	PbL	+	Depth	Date	Date Note
									(mg/cm²)	Index		
V99C5481	School 141	552	552 4 yr Play Room		toy, block	Mood	Blue	90.0	0.46	2.3	9/1/99	
												layers deep
V99C5482	School 141	553	553 4 yr Play Room		toy, block	Mood	Green	0.15	0.22	10.0	9/1/99	
V00C5/83	School 141	551		Chaire		Chord	Vollow	70.0	40.0	•	00/ 1/0	layers ueep
V 99C3403	3011001 14 I	400		Stalls		Concre	rellow	7.7.7	0.31	J. 5	9/1/99	9/1/99 Any lead present is on the surface laver
V99C5484	School 141	555		Stairs		Concrte	Pink	2.31	0.26	1.7	9/1/99	9/1/99 Any lead present is 2
												layers deep
V99C5485	School 141	556	124	Stairs	Rail	Metal	Pink	0.18	0.24	2.0	9/1/99	9/1/99 Any lead present is 2
V99C5486	School 141	222	557 4 yr Play Room	Wall		Plaster	White	0.01	0.08	1.6	9/1/99	9/1/99 Any lead present is on the
												surface layer
V99C5487	School 141	558	558 4 yr Play Room	Wall		Plaster	Green	0.03	0.02	1.1	9/1/99	9/1/99 Any lead present is on the
1/00/5/188	School 141	550	550 4 vr Dlay Doom	Cobinot	÷ .0	Mond	14/15:40	000	000	c	00,4,0	sui lace layer
V 33C3400	3011001 14 I	929	4 yi riay nooiii	Cabillet	Dool-Out	DOOM	wille	0.20	0.23	ي 2	8/1/8	9/1/99/Any lead present is 4 to 5 layers deep
V99C5489	School 141	260	560 4 yr Play Room		Baseboard	Wood	Brown	0.81	0.25	4.6	9/1/99	9/1/99 Any lead present is 4 to 5
												layers deep
V99C5490	School 141	561	561 4 yr Play Room		toy, block	Wood	Blue	0.19	0.26	5.1	9/1/99	9/1/99 Any lead present is 4 to 5
Т												layers deep
V99C5491	School 141	562	562 4 yr Play Room		toy, block	Wood	Blue	0.87	0.20	2.5	9/1/99	9/1/99 Any lead present is 2 to 3
20001			i d				i					layers deep
V99C549Z	School 141	563	563 4 yr Play Koom		Chair	Wood	Blue	0.03	0.25	1.5	9/1/99	9/1/99 Any lead present is on the
1,000,1400	0-1-0	1		147-11						1		
V99C5493	School 141	204	504 4 yr Play Koom	wall		Plaster	Green	0.10	0.10	2.2	9/1/99	9/1/99 Any lead present is 2
V99C5494	School 141	565	565 4 vr Plav Room	Wall	Baseboard	Wood	Brown	1 29	0.22	16	9/1/00	0/1/00 Any lead present is on the
								3	77.0	2		surface layer
V99C5495	School 141	266	566 4 yr Play Room		peq	Wood	Red	0.03	0.08	1.0	9/1/99	9/1/99 Any lead present is on the
$\neg \neg$												surface layer
V99C5496	School 141	292	567 4 yr Play Room		peq	Wood	Yellow	0.08	0.10	1.0	9/1/99	9/1/99 Any lead present is on the
$\neg \neg$		200										ŀ
V99C5497	School 141	200	508 4 yr Play Koom	Wobniw	Casing	Mood	White	0.0	0.07	2.6	9/1/99	9/1/99 Any lead present is 2 to 3
		202										
V99C5498	School 141	99c	569 4 yr Play Koom	Window	Sash	Mood	White	0.14	0.00	ر ن	9/1/99	9/1/99 Any lead present is 2
V99C5499 School 141	School 141	670	570 4 vir Blay, Boom		Chair	10/00	01.0	700	000	1	00,410	layers ueep
V 55C0455	2001000	0.0	+ yi r iay ixooiii			0000	ania	0.04	0.00	4.	8/1/8	9/1/99/Any lead present is on the

Vladivostok Ecology Project: Surface Testing Results

Number	Site	XL#	XL # Room	Structure	Feature	Substrate Color	Color	PbL ± (ma/cm²)		Depth	Date Note	Note
								•				surface layer
V99C5500	School 141	571	571 4 yr Play Room	Cabinet		Wood	White	0.05	0.07	1.7	9/1/69	9/1/99 Any lead present is 2
V99C5501	School 141	572	572 4 yr Play Room		toy, block	Wood	Yellow	0.04	0.23	1.7	9/1/99	9/1/99 Any lead present is 2
V99C5502	School 141	573	573 4 yr Play Room		tov. block	Wood	Blue	0.01	0.18	10	9/1/00	layers deep
)	5	5	?	2	surface layer
V99C5503	School 141	574	574 4 yr Play Room		toy, block	Mood	Other	0.21	0.11	6.	9/1/99	9/1/99 Any lead present is on the
V99C5504	School 141	575	4 yr Play Room		toy, block	Wood	Green	0.17	0.14	1.5	9/1/99	9/1/99 Any lead present is on the
10000		1										surface layer
V99C5505	School 141	9/6	5/6 Exterior	Playground	Equipment	Metal	Yellow	4.14	1.96	2.0	9/1/99	9/1/99 Any lead present is 2 lavers deep
V99C5506	School 141	222	577 Exterior	Playground	Equipment	Metal	Blue	0.27	0.51	6.2	9/1/99	9/1/99 Any lead present is 4 to 5
70000	0-1-144	170		ī								layers deep
/0cc266/	SCH001 141	2/6	376 Exterior	Playground	Equipment	Metai	Ked	0.57	0.17	2.1	9/1/99/	9/1/99 Any lead present is 2
V99C5508	School 141	579	579 Exterior	Playground	Equipment	Metal	Green	0.46	0.18	1.6	9/1/99	9/1/99 Any lead present is on the
				- 1							U	surface layer
V99C5509	School 141	280	580 Exterior	Playground	Equipment	Metal	Yellow	1.68	0.37	1.7	9/1/99	Any lead present is 2
00000	0-1-0	707		_								
01000667	SCN001 141	28.	Exterior	Playground Equipment	tire	rubber	Black	0.03	0.30	2.2	9/1/99	9/1/99 Any lead present is 2
V99C5511	School 141	582	582 Exterior		tire	rubber	Green	0.26	0.08	1.2	9/1/99	9/1/99 Any lead present is on the
7											(J)	surface layer
V99C5512	School 141	583	583 Exterior	Playground Equipment	tire	rubber	Yellow	1.37	0.26		9/1/99	9/1/99 Any lead present is on the
V99C5513	School 141	584	584 Exterior	1_	Equipment	Metal	Red	3.72	0.59	2.5	9/1/99	9/1/99 Any lead present is 2 to 3
V99C5514	School 141	585	585 6 vr Dl av Room		Joold vo	Motol	onla	700	000		200,470	layers deep
		3	ס זו ו במי ועסווו		toy, block		<u> </u>	0.0	0.03		8/1/8	9/ i/99/Any lead present is on the surface laver
V99C5515	School 141	586	586 6 yr PLay Room		toy, block	Metal	Yellow	0.63	0.16	1.1	9/1/99 ⊿	9/1/99 Any lead present is on the
	Cohool 444	207					-				S	surface layer
01.000	School 141	280	587 6 yr PLay Koom	-	toy, block	Metal	Red	90.0	90.0	1.0	9/1/99 A	Any lead present is on the
V99C5517	School 141	588	588 6 yr PLay Room	Cabinet		Wood	Yellow	90.0	0.13	1.1	9/1/99 A	9/1/99 Any lead present is on the
											S	surface layer

Vladivostok Ecology Project: Surface Testing Results

Number	Site	XL#	XL # Room	Structure	Feature	Substrate Color	Color	PbL	+	Depth	Date	Date Note
								(mg/cm²) (mg/cm²)	(mg/cm ²)	Index		
V99C5518	School 141	289	589 6 yr PLay Room		Chair	Wood	Blue	0.03	0.00	1.0	9/1/99	9/1/99 Any lead present is on the
1												surface layer
V99C5519	School 141	290	590 6 yr PLay Room	Window	Casing	Mood	White	0.06	0.44	2.5	9/1/99	9/1/99 Any lead present is 2 to 3
00110007		101	ā									layers deep
V99C55Z0	School 141	591	6 yr PLay Room	Window	Sash	Mood	White	0.04	0.06	1.0	9/1/99	9/1/99 Any lead present is on the
70000		100	1									surface layer
V99C55Z1	School 141	265	592 6 yr PLay Room	Wall		Plaster	Blue	90.0	0.16	<u>6</u>	9/1/99	9/1/99 Any lead present is 2
1/00/1820	Cohool 144	503	N	14/51		č		000				
V 99C 552	SCH001 141	283	595 Music Room	Wall		Plaster	Other	0.00	0.17	2.6	9/1/99	9/1/99 Any lead present is 2 to 3 lavers deen
V99C5523	School 141	594	594 Music Room		Radiator	Metal	White	0.27	0.29	4.4	9/1/99	9/1/99 Any lead present is 4 to 5
												layers deep
V99C5524	School 141	595	595 Music Room		Chair	Metal	Other	0.26	0.09	1.2	9/1/99	9/1/99 Any lead present is on the
1011000		001										surface layer
V99C55Z5	School 141	969	596 Music Room		Baseboard	Mood	Orange	0.32	0.07	[9/1/99	9/1/99 Any lead present is on the
1/00/25/26	Catal 444	507				1 4 7						surface layer
07000667	SCHOOL 141	/6C	Day Iniusic Room	worldow	Casing	DOOM	White	0.04	0.22		9/1/99	9/1/99 Any lead present is on the
V99C5527	School 141	508	598 Music Room	Window	Sach	Wood	White	000	77.0	0 0	0/4/00	A surface layer
								67.0	† †	0.0	8/1/8	layers deep
V99C5528	School 141	299	599 5 yr Play Room	Bench		роом	Yellow	>>5.0	1.00	2.3	9/1/99	9/1/99 Any lead present is 2 to 3
												layers deep
V99C5529	School 141	009	600 5 yr Play Room		toy, table	Mood	Orange	4.16	1.94	1.3	9/1/99	9/1/99 Any lead present is on the
0000												surface layer
V99C5530	School 141	601	601 5 yr Play Room		toy, block	Mood	Yellow	0.41	60.0	1.0	9/1/99	9/1/99 Any lead present is on the
VOOCEE 24	0-11444								-			surface layer
18600881	SCH001 141	700	ouz 5 yr Piay Koom		toy, block	Wood	Yellow	0.26	0.17	4.	9/1/99	9/1/99 Any lead present is on the
1/00/1622	Cohool 111	603	Ever Dian Doom	donod		14/		2		,	00,170	surface layer
V 39C0032	141	SOO	ous s yr Flay Room	pencu		VVOOD	Yed	0.15	0.11	ر. ن	9/1/99	9/1/99 Any lead present is on the
_				-								surface layer
V99C5533	School 141	604	604 5 yr Play Koom		Chair	Mood	Tan	0.30	0.09	1.2	9/1/99	9/1/99 Any lead present is on the
1/00/1553/	Cohool 1111	SOF	E ve Dlov Doom		Τ	10/00		200	100	,	00,770	surface layer
	141 1001120	200	ous s yr riay Roulli		toy, block	0000	rellow	0.0	c0.0	0.	9/1/99	9/1/99 Any lead present is on the
7/9905535	School 141	ROR	Sports Doom	IIOW			00,00	0.40	770	C	00/4/0	surface layer
	1+1 1001100	000	noor shorts woo	wall		riaster	peige	0.12	0.14	2.3	9/1/99	9/1/99 Any lead present is 2 to 3
V990 5536 School 141	Cohool 141	507	Cnorte Doom	Donoh		10/00	10/1-11	000	7.4		00, 17, 0	
000000ee x	141	30	טער בייטקבן ייטס	Delicii		VVOOG	wnite	0.30	0.15	3.5	9/1/99	9/1/99/Any lead present is 2 to 3

Vladivostok Ecology Project: Surface Testing Results

Number	Site	# 1X	XI # Room	Structure	Feature	Substrate Color	Color	Ph	-	Donth	Data Mata	
								(mg/cm²) (mg/cm²)		Index		
											layers deep	deeb
V99C5537	School 141	809	Sports Room		Baseboard	Wood	Beige	0.95	0.20	1.8	9/1/99 Any lead present is	ad present is 2
V99C5538	School 141	609	609 Sports Room	Bench		Wood	Yellow	0.37	0.08	1.0	9/1/99 Any lead pre	9/1/99 Any lead present is on the
V99C5539	School 141	610	610 Sports Room	Bench		Wood	Red	0.06	0.04	1.0	9/1/99 Any lead pre	9/1/99 Any lead present is on the
V99C5540	School 141	611	611 Sports Room	Wall		Plaster	Yellow	0.23	0.14	1.8	9/1/99 Any lead present is	ad present is 2
V99C5541	School 141	612	612 Sports Room		ladder	Wood	Brown	0.00	0.14	1.0	9/1/99 No lead present	d present
V99C5542	School 141	613	613 Sports Room		toy, block	Wood	Blue	0.16	0.22	7.8	9/1/99 Any lea	9/1/99 Any lead present is 4 to 5
V99C5543	School 141	614	614 Sports Room		toy, block	Wood	Pink	0.09	0.08	1.0	9/1/99 Any lead pre	9/1/99 Any lead present is on the
VOOCEEAA	School 144	615	Sports Doom					100	1	!	surface layer	alayer
V 3900044	3cil00i 141	610	o i o oports roofii		toy, block		Green	0.07	0.17	1./	9/1/99 Any lead present is layers deep	ad present is 2 deep
V99C5545	School 141	616	616 Sports Room		toy, block	Wood	Yellow	0.47	0.11	1.1	9/1/99 Any lead pre-	9/1/99 Any lead present is on the
V99C5546	School 141	617	Sports Room		toy, block	Wood	Red	0.07	0.07	1.0	9/1/99 Any lea	9/1/99 Any lead present is on the
V99C5547	School 141	618	618 Exterior	Wall		Wood	Green	0.16	0.13	1.3	9/1/99 Any lead pred	9/1/99 Any lead present is on the
V99C5548	School 141	619	619 Exterior	Wall		Brick	Yellow	0.51	0.09	1.0	9/1/99 Any lead pre-	9/1/99 Any lead present is on the
V99C5549	Bldg 147 Apt 52	620	620 Calibration					0.61	0.00	0.0	9/2/99 Any lead pres	9/2/99 Any lead present is on the surface laver
	Bldg 147 Apt 52	621		floor	-	Wood	Brown	3.73	0.37	2.1	9/2/99 Any lead present is layers deep	d present is 2
V99C5551	Bldg 147 Apt 52	622		Door	Casing	V booW	White	0.05	0.49	1.3	9/2/99 Any lead pres	9/2/99 Any lead present is on the surface laver
	Bldg 147 Apt 52	623		Door		V booW	White	0.04	0.17	1.0	9/2/99 Any lead pre- surface laver	9/2/99 Any lead present is on the surface laver
	Bldg 147 Apt 52	624		floor		Other	Brown	1.35	0.24	1.4	9/2/99 Any lead pre surface layer	9/2/99 Any lead present is on the surface layer
	Bldg 147 Apt 52	625		Door	_	Wood	White	90.0	0.10	1.0	9/2/99 Any lead pres	9/2/99 Any lead present is on the surface layer
V99C5555	Bldg 21/1	626	626 Calibration					0.61	0.00	0.0	9/2/99 Any lea	9/2/99 Any lead present is on the

Vladivostok Ecology Project: Surface Testing Results

Number	Site	# \X	XL # Room	Structure	Feature	Substrate Color	Color	PbL +		Depth	Date Note	Note
	Apt 46							ling/ciii /	\neg	xanııı		surface layer
V99C5556	Bldg 21/1 Apt 46	627		Door		Wood	White	0.05	0.04	1.0	9/2/99	9/2/99 Any lead present is on the
V99C5557	Bldg 21/1 Apt 46	628		Window	Casing	Wood	White	0.05	0.03	1.0	9/2/99	9/2/99 Any lead present is on the
V99C5558	Bldg 21/1 Apt 46	629			Baseboard	Wood	Blue	0.02	0.13	1.0	9/2/99	9/2/99 Any lead present is on the
V99C5559	Military City #18	630	630 Calibration					0.61	0.00	0.0	9/2/99	9/2/99 Any lead present is on the surface laver
V99C5560	Military City #18	631			chair		Grey	0.01	0.18	1.0	9/2/99	9/2/99 Any lead present is on the surface laver
V99C5561	Military City #18	632			Baseboard	Mood	Brown	1.14	0.26	2.5	9/2/99	Any lead present is 2 to 3 layers deep
V99C5562	Military City #18	633		Door		Mood	Green	0.25	0.24	5.5	9/2/99	9/2/99 Any lead present is 4 to 5 layers deen
	Military City #18	634			Radiator	Metal	Tan	90.0	0.22	1.9	9/2/99	9/2/99 Any lead present is 2 layers deep
V99C5564	Military City #18	635		Window	Casing	Wood	White	0.12	0.11	3.1	9/2/99	9/2/99 Any lead present is 2 to 3 layers deep
	Military City #18	636		stove		Brick	Green	0.03	0.14	1.2	9/2/99	9/2/99 Any lead present is on the surface laver
	Bldg 16 Apt 73	637	637 Calibration					09.0	0.00	0.0	9/2/99	9/2/99 Any lead present is on the surface laver
V99C5567	Bldg 16 Apt 73	638		floor			Orange	2.78	0.28	2.2	9/2/99	Any lead present is 2
V99C5568	Bldg 16 Apt 73	639		floor			Orange	3.08	0.35	2.1	9/2/99	9/2/99 Any lead present is 2 lavers deep
V99C5569	Bldg 16 Apt 73	640		floor			Orange	1.62	0.26	1.7	9/2/99	9/2/99 Any lead present is 2 lavers deep
V99C5570	Bldg 16 Apt 73	641		Door		Wood	Pink	1.98	0.61	4.4	6/2/6	9/2/99 Any lead present is 4 to 5 lavers deep
	Bldg 16 Apt 73	642			Baseboard	Wood	Orange	0.01	0.14	1.0	9/2/99	9/2/99 Any lead present is on the surface layer
	Bldg 16 Apt 73	643		Window	Casing	Wood	White	0.08	0.21	4.2	9/2/99	9/2/99 Any lead present is 4 to 5 layers deep
V99C5573	Bldg 16 Apt 73	644		Window		Wood	White	0.32	0.21	2.2	9/2/89	9/2/99 Any lead present is 2 layers deep

Vladivostok Ecology Project: Surface Testing Results

Number	Site	XL#	XL # Room	Structure	Feature	Substrate Color	Color	Pbl	+	Denth		Date Note
								(mg/cm²)	(mg/cm²) (mg/cm²)	Index		
V99C5574	Bldg 16 Apt 73	645			stair rail	Mood	Yellow	0.63	0.14	1.3		9/2/99 Any lead present is on the
V99C5575	Bldg 16 Apt 73	646			stair rail	Metal	Yellow	0.51	0.19	1.3		9/2/99 Any lead present is on the
V99C5576	Bldg 16 Apt 73	647		Wall		concrete		0.09	0.08	1.0		9/2/99 Any lead present is on the
V99C5577	Bldg 6 Apt 65	648	648 Calibration					09.0	00.0	0.0		9/2/99 Any lead present is on the
V99C5578	Bldg 6 Apt 65	649		floor			Yellow	1.14	0.21	1.0		9/2/99 Any lead present is on the
V99C5579	Bldg 6 Apt 65	650		floor			Yellow	1.28	0.14	1.2		9/2/99 Any lead present is on the
V99C5580	Bldg 6 Apt 65	651		floor			Yellow	1.32	0.11	1.2		9/2/99 Any lead present is on the
V99C5581	Bldg 6 Apt 65	652		Door		Mood	White	0.27	0.12	1.5		9/2/99 Any lead present is on the
V99C5582	Bldg 6 Apt 65	653		Door	Casing	Wood	White	00.00	0.01	1.0	9/2/99	9/2/99 No lead present
V99C5583	Bldg 6 Apt 65	654		-	sink			0.01	0.10	1.3	9/2/99	9/2/99 Any lead present is on the
V99C5584	Bldg 6 Apt 65	655			Baseboard	Wood	Brown	0.13	0.16	1.6	9/2/99	9/2/99 Any lead present is on the
V99C5585	Bldg 6 Apt 65	656		Wall		Plaster	Green	0.24	0.33	2.8	9/2/99	9/2/99 Any lead present is 2 to 3
	Bldg 19/2 Apt 52	657	657 Calibration					0.61	00.00	0.0	9/2/99	9/2/99 Any lead present is on the surface laver
	Bldg 19/2 Apt 52	658						0.01	0.14	1.7	9/2/99	9/2/99 Any lead present is 2 lavers deep
V99C5588	Bldg 19/2 Apt 52	629						1.29	0.21	1.7	9/2/99	9/2/99 Any lead present is 2
	Bldg 19/2 Apt 52	099						0.76	0.17	1.9	9/2/99	9/2/99 Any lead present is 2 lavers deep
	Bldg 19/2 Apt 52	661						0.03	0.09	1.0	9/2/99,	9/2/99 Any lead present is on the surface laver
	Bldg 19/2 Apt 52	662						0.17	0.18	2.8	9/2/99	9/2/99 Any lead present is 2 to 3 lavers deep
V99C5592	Bldg 40 Apt	663 (663 Calibration					0.62	0.00	0.0	9/2/99	9/2/99 Any lead present is on the

Vladivostok Ecology Project: Surface Testing Results

Numbor	Cito	* 1>	XI # Doom	Ctriotoria	Posture	Chattanta	1					
	200	AL #			eathie	Substitute Color		(mg/cm²) (mg/cm²)	± (mg/cm²)	Index	Date Note	Note
	29											surface layer
V99C5593	Bldg 40 Apt 29	664		floor			Brown	3.14	0.25	1.7	9/2/99	9/2/99 Any lead present is 2
V99C5594	Bldg 40 Apt 29	665			Baseboard		Brown	2.24	0.40	1.7	9/2/99	9/2/99 Any lead present is 2
V99C5595	Bldg 40 Apt 29	999			Baseboard		Brown	3.13	0.56	2.7	9/2/99	9/2/99 Any lead present is 2 to 3 lavers deep
V99C5596	Bldg 40 Apt 29	99		Wall		Plaster	Blue	0.05	0.10	1.2	9/2/99	9/2/99 Any lead present is on the surface laver
V99C5597	Bldg 40 Apt 29	668		Door		Wood	White	0.26	0.29	4.2	9/2/99	9/2/99 Any lead present is 4 to 5 lavers deep
V99C5598	Bldg 40 Apt 29	699		V	stair rail		Brown	0.32	0.13	1.6	9/2/99	9/2/99 Any lead present is on the surface laver
V99C5599	Bldg 1a Apt 53	029	670 Calibration					0.62	0.00	0.0	9/2/99	9/2/99 Any lead present is on the surface laver
V99C5600	Bldg 1a Apt 53	671		floor			Yellow	2.41	0.22	1.9	9/2/99	9/2/99 Any lead present is 2 lavers deep
V99C5601	Bldg 1a Apt 53	672		Wall		Plaster	other	0.17	0.13	2.3	9/2/99	9/2/99 Any lead present is 2 to 3 lavers deep
V99C5602	Bldg 1a Apt 53	673		Window	Casing	Wood	White	0.19	0.14	2.3	9/2/99	9/2/99 Any lead present is 2 to 3 lavers deep
V99C5603	Bldg 1a Apt 53	674		Door	Casing	Wood	Pink	0.14	0.09	1.3	9/2/99	9/2/99 Any lead present is on the surface laver
V99C5604	Bldg 1a Apt 53	675			Baseboard	Mood	Blue	0.29	0.14	1.4	9/2/99	9/2/99 Any lead present is on the surface laver
V99C5605	Bldg 1a Apt 53	929		floor			Yellow	3.72	0.46	1.9	9/2/99	9/2/99 Any lead present is 2 lavers deep
V99C5606	Bldg 1a Apt 53	229		floor			Yellow	2.93	0.31	1.3	9/2/99	9/2/99 Any lead present is on the surface laver
V99C5607	Bldg 3 Apt 85	829	678 Calibration					0.61	0.00	0.0	9/2/99	9/2/99 Any lead present is on the surface layer
V99C5608	Bldg 3 Apt 85	629		Door	Jamb	роом	Yellow	1.35	0.23	1.2	9/2/99	9/2/99 Any lead present is on the surface layer
V99C5609	Bldg 3 Apt 85	089		floor			other	2.05	0.23	1.5	9/2/99	9/2/99 Any lead present is on the surface layer
V99C5610	Bldg 3 Apt 85	681		floor			other	1.60	0.29	1.5	9/2/99	9/2/99 Any lead present is on the surface layer

Vladivostok Ecology Project: Surface Testing Results

Number	Site	XL#	XL #Room	Structure	Feature	Substrate Color	Color	PbL	+	Denth		Date Note
								(mg/cm²) (mg/cm²)	(mg/cm²)	Index		
V99C5611	Bldg 3 Apt	682		Window	Casing	Wood	White	0.14	0.15	2.6		9/2/99 Any lead present is 2 to 3
V99C5612	Bldg 3 Apt	683		Window		Wood	White	0.03	0.07	1.0		9/2/99 Any lead present is on the
V99C5613	Bldg 44 Apt	684	684 Calibration					0.62	0.00	0.0	66/2/6	Any lead present is on the
V99C5614	Bldg 44 Apt	685			Baseboard	Wood	Orange	>>5.0	1.00	2.2		9/3/99 Any lead present is 2
V99C5615	Bldg 44 Apt 28	989		floor			Orange	>>5.0	1.00	2.2		9/3/99 Any lead present is 2
V99C5616	Bldg 44 Apt 28	687		floor			Orange	>>5.0	1.00	3.6		9/3/99 Any lead present is 2 to 3 layers deen
V99C5617	Bldg 44 Apt 28	688		floor			Yellow	3.86	0.45	1.4		9/3/99 Any lead present is on the surface laver
V99C5618	Bldg 44 Apt 28	689		Door	Casing	Wood	White	0.35	0.39	4.5		9/3/99 Any lead present is 4 to 5 layers deep
V99C5619	Bldg 44 Apt 28	069		Window	Casing	Wood	White	0.12	0.11	1.8	9/3/99	9/3/99 Any lead present is 2 lavers deep
V99C5620	Bldg 44 Apt 28	691		Wall		Plaster	other	0.01	0.14	1.2	66/8/6	9/3/99 Any lead present is on the surface laver
V99C5621	Bldg 44 Apt 28	692		cabinet				00.00	0.02	1.0	66/8/6	9/3/99 No lead present
V99C5622	Bldg 53/1 Apt 20	693	Calibration					0.61	0.00	0.0	66/8/6	9/3/99 Any lead present is on the surface layer
	Bldg 53/1 Apt 20	694			Baseboard	Wood	Orange	0.13	0.10	1.0	66/2/6	9/3/99 Any lead present is on the surface layer
	Bldg 53/1 Apt 20	695			Baseboard	Wood	Orange	0.10	0.03	1.0	66/2/6	9/3/99 Any lead present is on the surface layer
V99C5625	Bldg 53/1 Apt 20	969		Wall		Plaster	other	0.00	0.14	1.0	66/2/6	9/3/99 No lead present
V99C5626	Bldg 53/1 Apt 20	269		Door	Casing	Wood	other	0.00	0.01	1.0	66/2/6	9/3/99 No lead present
	Bldg 53/1 Apt 20	869		Window	Casing	Wood	White	0.07	60.0	4.1	9/3/99	9/3/99 Any lead present is on the surface layer
	Bldg 53/1 Apt 20	669			toy, block	Wood	Yellow	0.91	0.18	1.1	66/8/6	9/3/99 Any lead present is on the surface layer
V99C5629 E	Bldg 26 Apt	700	700 Calibration					0.62	00.00	0.0	66/8/6	9/3/99 Any lead present is on the

Vladivostok Ecology Project: Surface Testing Results

Number	Site	XL#	XL # Room	Structure	Feature	Substrate Color		PbL	+1	Depth	Date Note	Note
								(mg/cm ²) (mg/cm ²)		Index		
	118											surface layer
V99C5630	Bldg 26 Apt 118	701		floor			Orange	1.15	0.23	2.2	66/2/6	9/3/99 Any lead present is 2
V99C5631	Bldg 26 Apt	702		floor			Yellow	1.17	0.18	1.3	9/3/99	9/3/99 Any lead present is on the
	118											surface layer
V99C5632	Bldg 26 Apt 118	703		Wall		Wood	Green	0.03	0.09	1.3	66/2/6	9/3/99 Any lead present is on the
V99C5633	Bldg 26 Apt 118	704					red	0.64	0.19	1.8	66/2/6	9/3/99 Any lead present is 2
V99C5634	Bldg 26 Apt 118	705		Window	Casing	Wood	White	00.00	0.00	1.0	66/2/6	9/3/99 No lead present
V99C5635	Bldg 26 Apt 118	206		Window		Wood	White	0.01	0.17	1.0	66/2/6	9/3/99 Any lead present is on the
V99C5636	Bldg 10 Apt 105		707 Calibration					0.62	0.00	0.0	66/2/6	9/3/99 Any lead present is on the
V99C5637	Bldg 10 Apt 105	208		floor			Orange	0.17	0.00	1.2	66/2/6	9/3/99 Any lead present is on the surface laver
V99C5638	Bldg 10 Apt 105	602		Wall		Plaster	White	0.01	0.07	4.0	66/2/6	9/3/99 Any lead present is 4 to 5 layers deen
V99C5639	Bldg 10 Apt 105	710		Door	Casing	Wood	Green	0.03	0.35	1.2	66/2/6	9/3/99 Any lead present is on the surface laver
V99C5640	Bldg 10 Apt 105	711		Door		Mood		0.12	0.12	1.0	66/2/6	9/3/99 Any lead present is on the surface laver
V99C5641	Bldg 10 Apt 105	712	-	Window	Casing	Wood		60.0	0.16	1.8	66/2/6	9/3/99 Any lead present is 2
V99C5642	Bldg 10 Apt 105	713		Window				0.29	0.10	1.5	9/3/99	9/3/99 Any lead present is on the surface laver
V99C5643	Bldg 10 Apt 105	714		Wall		Plaster	plue	0.02	0.21	1.0	9/3/99	9/3/99 Any lead present is on the surface laver
V99C5644	Bldg 43 Apt 10	715	715 Calibration					09.0	00.0	0.0	9/3/99	9/3/99 Any lead present is on the surface laver
V99C5645	Bldg 43 Apt 10	716		Wall		Plaster		0.00	0.08	1.0	66/8/6	9/3/99 No lead present
	Bldg 43 Apt 10	717		Door		Wood	White	0.97	0.21	1.5	9/3/99	9/3/99 Any lead present is on the surface layer
V99C5647	Bldg 43 Apt 10	718		floor			Yellow	>>5.0	1.00	2.0	9/3/99	9/3/99 Any lead present is 2 layers deep

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Number	Site	XL #	XL # Room	Structure	Feature	Substrate Color	Color	PbL (ma/cm²)	PbL +	Depth Index		Date Note
V99C5648	Bldg 43 Apt 10	719			Baseboard	Wood	Yellow	0.68	0.15			9/3/99 Any lead present is on the
V99C5649	Bldg 43 Apt 10	720		floor			Yellow	>>5.0	1.00	1.7		9/3/99 Any lead present is 2
V99C5650	Bldg 43 Apt 10	721		Door		Wood	White	0.12	0.11	1.7		9/3/99 Any lead present is 2
V99C5651	Bldg 43 Apt 10	722		Window	Casing	Wood	White	0.15	0.14	2.2		9/3/99 Any lead present is 2
V99C5652	Bldg 26 Apt 72	723	723 Calibration					0.61	0.00	0.0		9/3/99 Any lead present is on the
V99C5653	Bldg 26 Apt 72	724			Baseboard	Wood	Orange	0.61	0.17	1.4		9/3/99 Any lead present is on the
V99C5654	Bldg 26 Apt 72	725		Wall		Plaster	other	0.00	0.07	1.0	9/3/99	9/3/99 No lead present
V99C5655	Bldg 26 Apt 72	726		Window	Casing	Wood	White	0.26	0.19	3.1	9/3/99	9/3/99 Any lead present is 2 to 3
	Bldg 5 Apt 22	727	727 Calibration					0.61	0.00	0.0	9/3/99	9/3/99 Any lead present is on the surface laver
V99C5657	Bldg 5 Apt 22	728			table	Mood	other	0.70	0.12	1.0	66/8/6	9/3/99 Any lead present is on the
V99C5658	Bldg 5 Apt 22	729		Door	Casing	Wood		0.11	0.11	1.9	66/8/6	9/3/99 Any lead present is 2
	Bldg 5 Apt 22	730			bicycle	Metal	black	0.17	0.05	1.0	66/2/6	9/3/99 Any lead present is on the surface laver
_	Bldg 5 Apt 22	731		Window	Casing	Mood	White	0.07	0.09	1.9	66/2/6	9/3/99 Any lead present is 2 lavers deep
V99C5661	Bldg 5 Apt 22	732			Baseboard	Mood		3.62	0.70	2.5	66/2/6	9/3/99 Any lead present is 2 to 3 lavers deep
V99C5662	Bldg 5 Apt 22	733		Door				0.02	0.03	1.0	9/3/99	9/3/99 Any lead present is on the surface laver
V99C5663	Bldg 15 Apt 123	734 (734 Calibration					09.0	0.00	0.0	9/3/99	9/3/99 Any lead present is on the surface layer
	Bldg 15 Apt 123	735			Baseboard	Wood	Yellow	>>5.0	1.00	1.5	9/3/99	9/3/99 Any lead present is on the surface layer
- 1	Bldg 15 Apt 123	736		Door		Mood	Green	0.18	0.12	1.8	7 66/E/6	9/3/99 Any lead present is 2 lavers deep
V99C5666	Bldg 15 Apt	737		floor			Yellow	1.53	0.18	1.2	66/8/6	9/3/99 Any lead present is on the

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Number	Site	# TX	XL # Room	Structure	Feature	Substrate Color	Color	PbL	+1.	Depth		Date Note
								(mg/cm²) (mg/cm²)	(mg/cm²)	Index		
	123											surface layer
V99C5667	Bldg 15 Apt 123	738			Baseboard	Wood	Yellow	2.90	0.29	1.6	66/2/6	9/3/99 Any lead present is on the surface layer
V99C5668	Bldg 15 Apt 123	739		Door		Wood	White	0.09	0.10	1.7	6/2/6	
V99C5669			740 Calibration					0.61	00.00	0.0	66/2/6	9/3/99 Any lead present is on the
V99C5670		741	741 Calibration					09.0	0.00	0.0	9/3/99	9/3/99 Any lead present is on the
V99C5671	Bldg 23 Apt 134	742		Door	Casing	Wood	White	0.09	0.10	2.0	9/3/99	9/3/99 Any lead present is 2 lavers deep
V99C5672	Bldg 23 Apt 134	743		floor			Yellow	2.53	0.47	2.9	9/3/99	9/3/99 Any lead present is 2 to 3 layers deep
V99C5673	Bldg 23 Apt 134	744		floor			Orange	2.15	0.25	3.4	9/3/99	9/3/99 Any lead present is 2 to 3 layers deep
V99C5674	Bldg 23 Apt 134	745			Baseboard	Wood		3.40	0.55	3.3	9/3/99	9/3/99 Any lead present is 2 to 3 layers deep
V99C5675	Bldg 23 Apt 134	746		Window	Casing	Wood	White	0.20	0.47	5.0	66/8/6	9/3/99 Any lead present is 4 to 5 layers deep
V99C5676	Bldg 23 Apt 134	747			Baseboard	Wood	brown	2.21	0.35	2.8	66/8/6	9/3/99 Any lead present is 2 to 3 layers deep
	Bldg 39 Apt 8		748 Calibration					09'0	00.00	0.0	66/8/6	9/3/99 Any lead present is on the surface layer
V99C5678	Bldg 39 Apt 8	749		floor			Yellow	08'0	0.17	1.5	9/3/99	9/3/99 Any lead present is on the surface layer
	Bldg 39 Apt 8	750		floor			Yellow	0.81	0.18	1.6	66/8/6	9/3/99 Any lead present is on the surface layer
V99C5680	Bldg 39 Apt 8	751		Door		Mood	White	0.23	0.70	4.2	66/8/6	9/3/99 Any lead present is 4 to 5 layers deep
V99C5681	Bldg 39 Apt 8	752		Wall		Plaster	pink	00.00	90.0	1.0	66/8/6	9/3/99 No lead present
	Bldg 39 Apt 8	753		Window	Casing	Wood	White	90'0	0.08	1.8	66/2/6	9/3/99 Any lead present is 2 layers deep
	Bidg 39 Apt 8	754		floor	hallway		red	0.02	0.06	6.8	66/2/6	9/3/99 Any lead present is 4 to 5 layers deep
V99C5684	Bldg 39 Apt 8	755		floor	hallway		plue	0.23	0.11	1.7	66/2/6	9/3/99 Any lead present is 2 layers deep

Vladivostok Ecology Project: Surface Testing Results

Number	Site	XL#	XL # Room	Structure	Feature	Substrate Color	Color	PbL	+1	Depth		Date Note
								(mg/cm ²)	$(mg/cm^2)/(mg/cm^2)$	Index		
V99C5685	Bldg 9 Apt	756	756 Calibration					0.61	00.00			9/3/99 Any lead present is on the
	29											surface layer
V99C5686	Bldg 9 Apt	757		Wall		Plaster	other	0.05	0.17	1.2		9/3/99 Any lead present is on the
	67											surface layer
V99C5687	Bldg 9 Apt	759		floor	closet		Yellow	3.45	0.44	1.2		9/3/99 Any lead present is on the
	67											surface layer
V99C5688	Bldg 9 Apt	209			Baseboard	Wood	Yellow	3.15	1.21	1.9		9/3/99 Any lead present is 2
	67				- 1							layers deep
V99C5689	Bldg 9 Apt	761			Baseboard	Wood	Yellow	3.14	0.36	2.0		9/3/99 Any lead present is 2
- 1	67											layers deep
V99C5690	Bldg 56 Apt	762	762 Calibration					09.0	0.00	0.0	66/2/6	9/3/99 Any lead present is on the
Т	942											surface layer
V99C5691	Bldg 56 Apt	763	4		Baseboard			0.53	0.14	1.2	66/2/6	9/3/99 Any lead present is on the
- 1	942											surface layer
V99C5692	Bldg 56 Apt	764		Door	Casing	Wood	White	0.18	0.19	3.3	66/8/6	9/3/99 Any lead present is 2 to 3
- 1	942	ŀ										layers deep
V99C5693	Bldg 56 Apt	292		Wall		Plaster	other	0.00	0.01	1.0	66/8/6	9/3/99 No lead present
Т	246											
V99C5694	Bldg 56 Apt 942	992		Window	Casing	Wood		0.15	0.10	2.3	9/3/99	9/3/99 Any lead present is 2 to 3
1/00/2605	Dida 44 Ant		Calibration					300	0		0,0,0	layers ueep
	323		707 Calibration					0.61	0.00	0.0	9/3/99	9/3/99 Any lead present is on the surface laver
V99C5696	Bldg 11 Apt	292			Baseboard	Wood	Yellow	1.28	0.14	1.3	9/3/99	9/3/99 Any lead present is on the
	323											surface layer
V99C5697	Bldg 11 Apt	69/		Door		Wood	White	0.05	0.05	1.0	9/3/99	9/3/99 Any lead present is on the
- 1	323											surface layer
V99C5698	Bldg 11 Apt	770		floor			Yellow	1.16	0.25	1.5	66/8/6	9/3/99 Any lead present is on the
- 1	323											surface layer
\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Bidg 11 Apt	771		Wall		-	other	0.08	0.30	10.0	9/3/89	9/3/99 Any lead present is 4 to 5
- 1	323			7								ayers deep
V99C5700	Bldg 11 Apt	772		Window	Casing	Wood		0.56	0.18	7:	6/3/66	9/3/99 Any lead present is on the
	323	=										surface layer

Vladivostok Ecology Project: Blood-Lead Screening Results

Age NOTES	9	9	7	9	9	9	5	9	9	9	9	9	9		2	9	9	9	9	9	9	9	9	2	9	5	9	9	3	9	9	9	9	9
RESULT (US)	3.6	3.7	14.0	4.0	3.3	2.0	3.8	2.4	6.5	2.0	14.6	4.4	6.9	6.8	4.0	5.3	8.0	6.5	0.9	4.2	3.0	3.6	2.5	12.0	3.2	4.7	5.1	4.7	12.8	10.0	5.3	8.7	4.8	0.9
Result	3,6	3,7	14,0	4,0	3,3	2,0	3,8	2,4	6,5	2,0	14,6	4,4	6'9	8,9	4,0	5,3	8,0	6,5	0'9	4,2	3,0	3,6	2,5	12,0	3,2	4,7	5,1	4,7	12,8	10,0	5,3	8,7	4,8	0'9
Sample	1001	1002	1003	1004	1005	1006	1001	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034
TEAM ID#	V99B0001	V99B0002	V99B0003	V99B0004	V99B0005	V99B0006	V99B0007	V99B0008	V99B0009	V99B0010	V99B0011	V99B0012	V99B0013	V99B0014	V99B0015	V99B0016	V99B0017	V99B0018	V99B0019	V99B0020	V99B0021	V99B0022	V99B0023	V99B0024	V99B0025	V99B0026	V99B0027	V99B0028	V99B0029	V99B0030	V99B0031	V99B0032	V99B0033	V99B0034
coc	169	169	169	169	169	169	169	169	169	. 169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169

Vladivostok Ecology Project: Blood-Lead Screening Results

													3.3																			
										12.8%	17.0%		5.7 Std Dev																	10.0%	10.0%	
Age NOTES	9	9	9	9	9	9	9	5	5	SN<9	6 8>Russia	6 MEAN #169	6 5.	2	5	5	5	5	5	4	4	9	5	9	9	9	9	4	5	6 2>US	6 2>Russia	
RESULT (US)	5.9	3.3	3.5	6.4	5.1	3.3	5.5	3.9	5.3	16.0	5.5	3.2	1.3	13.7	6.7	4.3	7.7	5.7	3.6	5.1	1.8	5.1	0.4	6.3	0.3	2.3	3.1	5.3	2.7	11.9	1.6	
Result	6'9	3,3	3,5	6,4	5,1	3,3	5,5	3,9	5,3	16,0	5,5	3,2	1,3	13,7	6,7	4,3	7,7	5,7	4,6	5,1	1,8	5,1	0,4	6,3	6,0	2,3	3,1	5,3	2,7	11,9	1,6	
Sample	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	
TEAM ID#	V99B0035	V99B0036	V99B0037	V99B0038	V99B0039	V99B0040	V99B0041	V99B0042	V99B0043	V99B0044	V99B0045	V99B0046	V99B0047	V99B0048	V99B0049	V99B0050	V99B0051	V99B0052	V99B0053	V99B0054	V99B0055	V99B0056	V99B0057	V99B0058	V99B0059	V99B0060	V99B0061	V99B0062	V99B0063	V99B0064	V99B0065	
CDC	169	169	169	169	169	169	169	169	169	169	169	169	169	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	0,

Vladivostok Ecology Project: Blood-Lead Screening Results

																																31.4%	37.1%	
Age NOTES	2	5	5	5	5	9	5	9	5	5	5	9	7	7	9	9	9	9	9	9	9	9	9	9	4	5	5	7	9	5	2	611>US	5 13>Russia	5 MEAN #141
RESULT (US)	0.6	2.2	5.3	12.6	12.2	3.5	3.7	5.3	1.6	4.7	15.1	5.1	12.4	4.4	3.0	17.0	11.2	7.2	11.2	11.8	9.2	10.4	5.1	6.7	10.2	6.4	7.5	5.6	7.8	6.2	7.3	6.7	5.7	5.6
Result	0'6	2,2	5,3	12,6	12,2	3,5	3,7	5,3	1,6	4,7	15,1	5,1	12,4	4,4	3,0	17,0	11,2	7,2	11,2	11,8	9,2	10,4	5,1	2'9	10,2	6,4	7,5	5,6	7,8	6,2	7,3	6,7	5,7	5,6
Sample	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101
TEAM ID#	V99B0068	V99B0069	V99B0070	V99B0071	V99B0072	V99B0073	V99B0074	V99B0075	V99B0076	V99B0077	V99B0078	V99B0079	V99B0080	V99B0081	V99B0082	V99B0083	V99B0084	V99B0085	V99B0086	V99B0087	V99B0088	V99B0089	V99B0090	V99B0091	V99B0092	V99B0093	V99B0094	V99B0095	V99B0096	V99B0097	V99B0098	V99B0099	V99B0100	V99B0101
CDC	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141	141

Vladivostok Ecology Project: Blood-Lead Screening Results

CDC	TEAM ID#	Sample	Result	RESULT (US)	Age NOTES		
141	V99B0102	1102	8'6	9.8	4	7.7 Std Dev	3.7
132	V99B0103	1103	8,8	8.8	9		
132	V99B0104	1104	2,7	2.7	9		
132	V99B0105	1105	3,7	3.7	9		
132	V99B0106	1106	4,0	4.0	9		
132	V99B0107	1107	3,0	3.0	9		
132	V99B0108	1108	8,4	8.4	5		
132	V99B0109	1109	7,3	7.3	9		
132	V99B0110	1110	17,6	17.6	9		
132	V99B0111	1111	. 6,2	6.2	9		
132	V99B0112	1112	5,1	5.1	9		
132	V99B0113	1113	3,8	3.8	9		
132	V99B0114	1114	8,3	8.3	9		
132	V99B0115	1115	1,7	1.7	2		
132	V99B0116	1116	4,4	4.4	9		
132	V99B0117	1117	0,2	0.2	9		
132	V99B0118	1118	7,1	7.1	9		
132	V99B0119	1119	5,1	5.1	7		
132	V99B0120	1120	1,0	1.0	9		
132	V99B0121	1121	1,8	1.8	5		
132	V99B0122	1122	1,1	1.1	9		
132	V99B0123	1123	0,2	0.2	9		
132	V99B0124	1124	0,4	0.4	9		
132	V99B0125	1125	6,4	6.4	6 1>US	3.8%	
132	V99B0126	1126	2,1	2.1	64>Russia	15.4%	
132	V99B0127	1127	2,8	2.8	6 MEAN #132	2	
132	V99B0128	1128	4,8	4.8	, 2	4.5 Std Dev	3.7
	0000000	0077	1				
601	V99B01Z9	1129	5,1	5.1	9		
109	V99B0130	1130	6,0	0.9	9		
109	V99B0131	1131	7,7	7.7	5		
109	V99B0132	1132	0'9	0.9	5		
109	V99B0133	1133	15	4.5	ч		

Vladivostok Ecology Project: Blood-Lead Screening Results

Age NOTES	4	5	5	4	4	4	5	2	5	9	4	4	9	2	5	5	5	2	2	5	2	9	2	2	2	4	4	4	4	4	4	4	4	5
RESULT (US)	11.9	12.2		8.3	4.6	6.1				5.1				9.4	4.1	3.0		7.3	6.4	9.7		5.1	7.0	0.9	3.7	8.1	2.5	5.8	6.5	5.6	8.9	6.2	8.2	8.4
Result	11,9	12,2	5,2	8,3	4,6	6,1	3,2	9'6	5,6	5,1	18,0	5,8	9'9	9,4	4,1	3,0	13,5	7,3	6,4	2,6	4,4	5,1	7,0	0'9	3,7	8,1	5,7	5,8	6,5	9'9	8'9	6,2	8,2	8,4
Sample	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167
TEAM ID#	V99B0134	V99B0135	V99B0136	V99B0137	V99B0138	V99B0139	V99B0140	V99B0141	V99B0142	V99B0143	V99B0144	V99B0145	V99B0146	V99B0147	V99B0148	V99B0149	V99B0150	V99B0151	V99B0152	V99B0153	V99B0154	V99B0155	V99B0156	V99B0157	V99B0158	V99B0159	V99B0160	V99B0161	V99B0162	V99B0163	V99B0164	V99B0165	V99B0166	V99B0167
CDC	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109

Vladivostok Ecology Project: Blood-Lead Screening Results

						3.4																											
			15.5%	28.9%		7.3 Std Dev																											40.0%
Age NOTES	4	4	4 7>US	4 13>Russia	4 MEAN #109	7 7.3	6	10	7	2	9	9	9	9	9	9	9	9	7	9	7	4	4	4	3	4	8	4	3	4	4	4	4 13>US
RESULT (US)	0.9	12.5	6.7	11.4	4.7	18.0	17.4	24.1	18.0	4.7	20.4	8.6	7.6	11.2	5.3	13.6	4.7	2.8	17.1	8.4	13.6	28.0	3.8	16.3	4.6	7.2	1.7	3.1	3.8	10.5	9.1	6.1	2.4
Result	0'9	12,5	2'9	11,4	4,7	18,0	17,4	24,1	18,0	4,7	20,4	8,6	9'2	11,2	5,3	13,6	4,7	2,8	17,1	8,4	13,6	28,0	3,8	16,3	4,6	7,2	1,7	3,1	3,8	10,5	9,1	6,1	2,4
Sample	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200
TEAM ID#	V99B0168	V99B0169	V99B0170	V99B0171	V99B0172	V99B0173	V99B0174	V99B0175	V99B0176	V99B0177	V99B0178	V99B0179	V99B0180	V99B0181	V99B0182	V99B0183	V99B0184	V99B0185	V99B0186	V99B0187	V99B0188	V99B0189	V99B0190	V99B0191	V99B0192	V99B0193	V99B0194	V99B0195	V99B0196	V99B0197	V99B0198	V99B0199	V99B0200
CDC	109	109	109	109	109	109	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162

Vladivostok Ecology Project: Blood-Lead Screening Results

			7.5					
	9				19.2% Percent	27.1% Percent		
	20.0%		dDev		19.2%	27.19		
Age NOTES	4 16>Russia	4 MEAN #162	10.2 StdDev		39>US	55>Russia		
Age	4	4	4					
RESULT (US)	1.0	2.0	25.0	8.9	4.640245023	28.0	0.2	
Result	1,0	2,0	25,0	MEAN	STDDEV	MAX	MIN	
Sample	1201	1202	1203					
TEAM ID#	V99B0201	V99B0202	V99B0203					
CDC	162	162	162					

LEAD SURVEY QUESTIONNAIRE

1. Study identification number	
2. Child's name (last, first)	
3. Child's age (years)	
4. Male Female	
5. Ethnic background	
Russian Korean	
Other	
6. Height Weight	
7. Blood Lead Level on first screen	
Follow-ups	
Follow-ups	
8. Kindergarten	
9. How many hours per week does your child spend at the kindergarten?	
☐ 11-20	
<u> 21-30</u>	
☐ 31-40	
10. How far is the kindergarten playground from the road?	
11. Home address and number	

12. How many hours per week spent inside the home?

LEAD SURVEY QUESTIONNAIRE

	☐ <70 ☐ 71-84
	☐ 85-98
	99-112
	□ 113-126
	<u> 127-140</u>
13.	Where does your child play outdoors?
14.	How far is the road from where your child plays?
15.	How many hours per week does your child spend playing outside?
16.	What toys does your child play with? any painted toys?
17.	How many adults live in the home?
18.	What is the father's occupation?
19.	What is the mother's occupation?
20.	What is the occupation of other adults living in the home?
21.	What is the source of water? Faucet Bottled Brand
22.	What is the source of produce?
23.	What is the typical diet?
24.	What major illnesses does the child have?
25.	What type eating utensils are used and where were they obtained?

LEAD SURVEY QUESTIONNAIRE

26.	What type cooking utensils are used and where were they obtained?
	Have there been any repairs or remodeling done within the home? No Yes if yes
plea	se explain.
	Was a source of lead found in the kindergarten? No Yes If yes, where?
29.	Was a source of lead found at the home? No Yes If yes, where?
30.	Was a source of lead found in the playground? No Yes If yes, where?
31.	Does your child stay/play at other locations besides the home (other relatives or friends)?
	What hobbies do the parents or other adults living in the home have or what work is done in nome that might be a source of lead?
Each	h child with high blood levels (BLL) and 2 other children with normal BLLs from the same

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